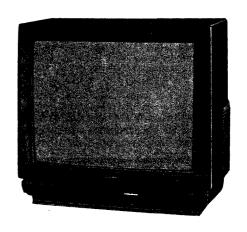
TOSHIBA

COLOUR TELEVISION

1500RFT:1500RFW:1501RFZ



SPECIFICATIONS				
Input Power Rating:	59 watts, AC 220 volts, 50 Hz			
Aerial Input Impedance:	75 ohm unbalanced type for VHF and UHF			
Receiving Channels:	SECAM-L Standard: VHF			
Intermediate Frequencies:	Picture I-F carrier frequency: B/G 32.7 MHz (VH,U) 37.4 MHz (VL) L, I 32.7 MHz Sound I-F carrier frequency: L 39.2 MHz B/G 38.2 MHz (VH,U) 31.9 MHz (VL) I 38.7 MHz			
Picture Tube:	15 inches, A36EAM01X01, 360 mm (measured on diagonal of viewable picture area), 90° deflection			
Sound Output:	1.0 watt (at 10% harmonic distortion), Max. 1.5 watts			
Speakers:	100 mm round			
Aux. Terminals:	Headphone Jack, 21 pin socket			
Dimensions:	Height 348 mm Width 384 mm Depth 372 mm			
Weight:	11.5 kg			

Specifications are subject to change without notice.

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

- 1. The E.H.T. must be checked every time the receiver is serviced to ensure that the C.R.T. does not emit X-ray radiation as result of excessive E.H.T. voltage. The nominal E.H.T. for this receiver is 25 kV at zero beam current (minimum brightness) operating at 220V a.c. The maximum E.H.T. voltage permissible in any operating circumstances must not exceed 26.5 kV. When checking the E.H.T., use the 'High Voltage Check' procedure in this manual using an accurate E.H.T. voltmeter.
- 2. The only source of X-RAY radiation in this receiver is the C.R.T. To prevent X-ray radiation, the replacement C.R.T. must be identical to the original fitted as specified in the Parts List.
- Some components used in this receiver have safety related characteristics preventing the C.R.T. from emitting X-ray radiation.
 For continued safety, replacement component should only be made after referring the Product Safety Notice below.

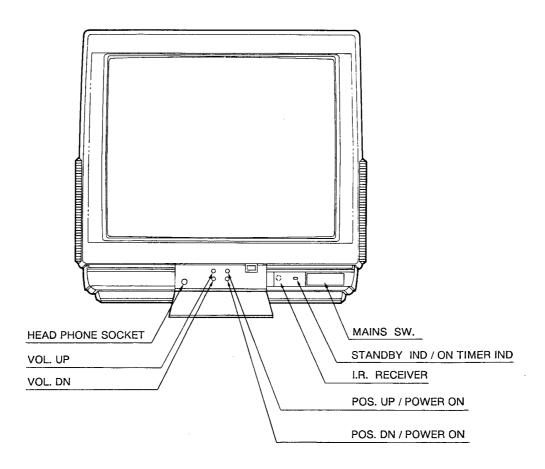
SAFETY PRECAUTION

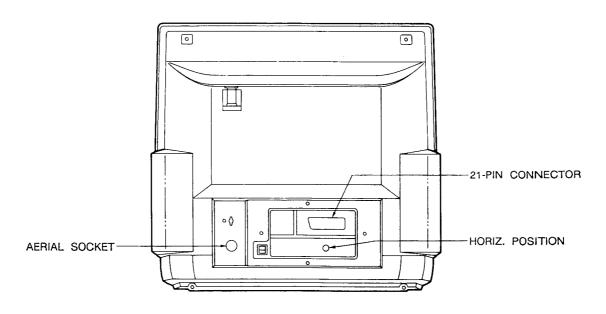
- This receiver has a nominal working E.H.T. voltage of 23.0 kV. Extreme caution should be exercised when working on the receiver with the back removed.
 - Do not attempt to service this receiver if you are not conversant with the precautions and procedures for working on high voltage equipment.
 - When handling or working on the C.R.T., always discharge the anode to the receiver chassis before removing the anode cap
 - The C.R.T., if broken, will violently expel glass fragments. Use shatter proof goggles and take extreme care while handling.
 - Do not hold the C.R.T. by the neck as this is a very dangerous practice.
- It is essential that to maintain the safety of the customer all cable forms be replaced exactly as supplied from factory.
- 3. A small part of the chassis used in this receiver is, when operating, at approximately half mains potential at all times. It is therefore essential in the interest of safety that when serving or connecting any test equipment the receiver should be supplied via a suitable isolating transformer of adequate rating.
- Replace blown fuses within the receiver with the fuse specified in the parts list.
- 5. When replacing wires or components to terminals or tags, wind the leads around the terminal before soldering. When replacing safety components identified by the international hazard symbols on the circuit diagram and parts list, it must be a Toshiba approved type and must be mounted as the original.
- Keep wires away from high temperature components.

PRODUCT SAFETY NOTICE

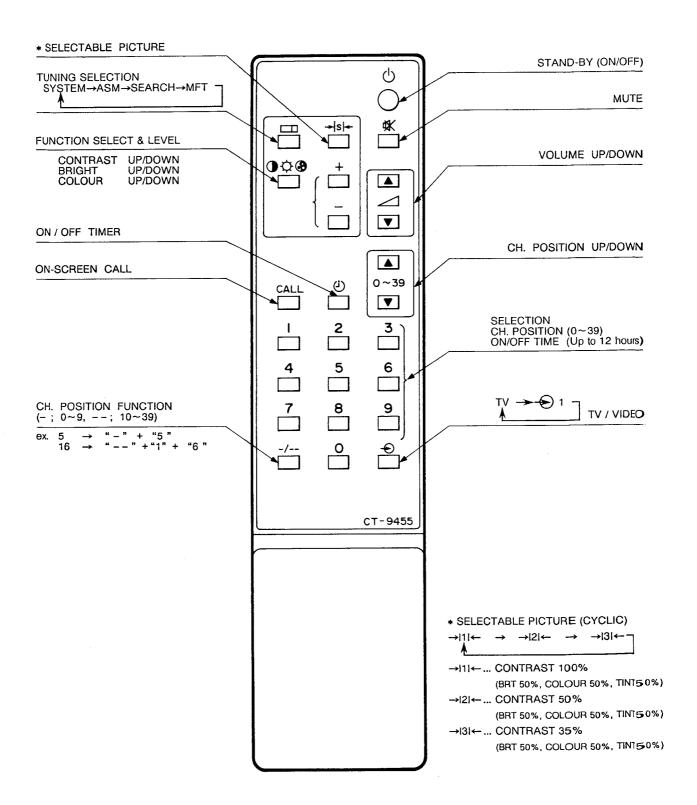
Many electrical and mechanical components in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-ray radiation protection afforded by them cannot necessarily be obtained by using replacements rated at higher voltages or wattage, etc.Components which have these special safety characteristics in this manual and its supplements are identified by the international hazard symbols on the schematic diagram and parts list. Before replacing any of these components read the parts list in this manual carefully. Substitute replacement components which do not have the same safety characteristics as specified in the parts list may create X-ray radiation.

FRONT CONTROLS AND REAR VIEWS





REMOTE HAND HELD UNIT



WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

INSTALLATION AND SERVICE ADJUSTMENTS

GENERAL INFORMATIONS

All adjustments are thoroughly checked and corrected when the receiver leaves the factory. Therefore the receiver should operate normally and produce proper colour and B/W pictures upon installation. However, several minor adjustments may be required depending on the particular location in which the receiver is operated.

This receiver is shipped completely in cardboard carton. Carefully draw out the receiver from the carton and remove all packing materials.

Plug the power cord into a convenient 220 volts 50 Hz AC two pin power outlet. Turn the receiver ON. Check and adjust all the customer controls such as BRIGHTNESS, CONTRAST and COLOUR Controls to obtain natural colour or B/W picture.

AUTOMATIC DEGAUSSING

A degaussing coil is mounted around the picture tube so that external degaussing after moving the receiver is normally unnecessary, providing the receiver is properly degaussed upon installation. The degaussing coil operates for about 1 second after the power to the receiver is switched ON. If the set is moved or faced in a different direction, the power switch must be switched off at least one hour in order that the automatic degaussing circuit operates properly. Should the chassis or parts of the cabinet become magnetized to cause poor colour purity, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube, the sides and front of the receiver and slowly withdraw the coil to a distance of about 2 m before disconnecting it from AC source. If colour shading still persists, perform the COLOUR PURITY ADJUSTMENT and CONVERGENCE ADJUSTMENTS procedures.

+112 VOLT POWER SUPPLY ADJUSTMENT (R851)

CAUTION: +B voltage closely relates to the high voltage. To prevent hazardous X-RAY RADIATION, the +B voltage must be properly adjusted to +112 volts.

- Tune in an active channel. Adjust the BRIGHTNESS and CONTRAST Controls for normal picture.
- Check that the AC power Line voltage is normal. (AC 220 volts, 50 Hz)
- 3. Connect a digital voltmeter to both leads of C451.
- 4. Adjust R851 for 112V reading on the meter.
- 5. Remove the digital voltmeter.

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis.

- Connect an accurate high voltage meter to the second anode of the picture tube.
- Turn on the receiver. Set the BRIGHTNESS and CONTRAST Controls to minimum (zero beam current).
- 3. High voltage will be measured below 26.5 kV.
- 4. Rotate the BRIGHTNESS Control to both extremes to be sure the high voltage does not exceed the limit of 26.5 kV under any conditions.

HEIGHT ADJUSTMENT

- Receive the WG PHILIPS pattern, and set the contrast and colour to minimum, and the brightness to centre.
- Change the VERT POSITION SW (S301) so the round shape in the pattern is located in the centre of screen.
- HEIGHT Control (R351) changes the size of the picture or pattern, having an equal effect on the top and bottom. Make final adjustment to overscan the mask 2 cm at top and bottom.

HORIZONTAL CENTRE ADJUSTMENT

- 1. Receive the WG PHILIPS pattern.
- 2. Set the contrast and colour to minimum, and the bringhtness to centre.
- 3. Adjust H. CENTRE USER Control (R452) to the click (centre) position.
- 4. Adjust H. CENTRE SUB Control (R451) so the pattern centre can be located at the screen centre.

FOCUS ADJUSTMENT

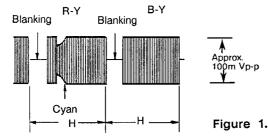
Adjust FOCUS Control on FLYBACK TRANS.(T461) for well defined scanning lines in the centre area on the screen.

PAL MATRIX ADJUSTMENT

- 1. Tune in the colour programme of the Philips pattern.
- 2. Set the COLOUR Control to obtain the proper colour.
- If the PAL MATRIX adjustment is incorrect, the Venetian Blind would appear in the colour bars area. This case needs the adjustment.
- At the first, adjust DL PHASE ADJ. Coil (L551) to minimize the Venetian Blind.
- Next adjust 1H-DL ADJ. VR (R551) to minimize the Blind.
- If the Venetian Blind still remains, adjust 1H-DL PHASE ADJ. Coil (L551) to minimize the Blind again.
- 7. Repeat the item 5 and 6 procedures, adjust the R551 and L551 until the Blind does not appear.

BELL COIL (LM01) ADJUSTMENT

- 1. Receive SECAM colour bar signal.
- Connect the synchroscope to the terminal pin 2 of
- 3. Adjust LM01 for the flat level of amplitude in each colour bar waveform on the scope. (See figure 1.)

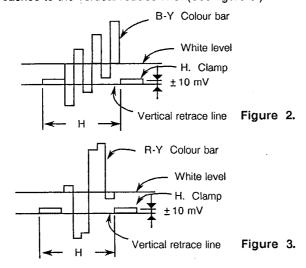


IDENT COIL (LM04) ADJUSTMENT

- Receive SECAM colour bar signal.
 Connect the DC voltmeter (Digital Voltmeter) to the pin 23 of IC501.
- Adjust LM04 for the maximum indication (approx. DC10V) on the meter.

B-Y, R-Y DEMOD COIL (LM02, LM03) ADJUSTMENT

- 1. Receive SECAM colour bar signal.
- 2. Set the COLOUR, BRIGHTNESS and CONTRAST Controls free.
- 3. Connect the synchroscope to the pin 62 of IC501.
- 4. Adjust LM02 so that the white level in picture part reaches to the vertical retrace line. (See figure 2.)
- Then change the connection of synchroscope from the pin 62 to the pin 60 of IC501.
- 6. Adjust LM03 so that the white level in picture part reaches to the vertical retrace line. (See figure 3.)



CRT GREY SCALE ADJUSTMENT

- 1. Tune in an active channel.
- 2. Turn the SCREEN Control (on T461) fully counterclockwise.
- 3. Set the RED, GREEN and BLUE CUT OFF Controls (R557, R558, R559) counterclockwise to the minimum position.
- 4. Set the GREEN and BLUE DRIVE Controls (R252, R253) to the mid position.
- 5. Set the CUT OFF SW. (S202) in the H. line position.
- 6. Short temporarily terminal of RASTER CHIP on the CRT DRIVE Board.
- 7. Set the CONTRAST, COLOUR Controls to minimum and BRIGHTNESS Control to centre. Set the SUB BRIGHTNESS Control to minimum.
- 8. Rotate the SCREEN Control gradually clockwise until the first horizontal line of a colour (RED, GREEN or BLUE) appears slightly on the screen. Set the SCREEN Control to this position.
- 9. Open the terminal of RASTER CHIP on the CRT DRIVE Board.
- 10. Adjust the CUT OFF Controls to obtain the slightly lighted horizontal lines in the same levels of three colours (RED, GREEN and BLUE). The lines may look like white if the CUT OFF Controls are adjusted properly.
- 11. Return the CUT OFF SW. (S202) in the receiving position.
- 12. Set the BRIGHTNESS Control to the maximum and COLOUR Control to the minimum.
- 13. Adjust the BLUE and GREEN DRIVE Controls (R252/R253) to obtain proper white-balanced picture in high light areas.
- 14. Set the BRIGHTNESS and CONTRAST Controls to obtain dark grey raster. Then check the white balance in low brightness. If the white balance is not proper, retouch the CUT OFF Controls and DRIVE Controls to obtain a good white balance in both low and high light areas.

SUB-BRIGHTNESS ADJUSTMENT

- 1. Tune in a colour programme.
- 2. Set the CONTRAST Control to the maximum and the BRIGHTNESS Control to the centre.
- 3. Set the COLOUR Control to the minimum.
- 4. Set the SUB-BRIGHT. Control (R255) to the centre and leave the receiver for five minutes in this state.
- 5. Watching the picture well, adjust the SUB-BRIGHT. Control in the position where the picture does not show evidence of blooming in high bright area and not appear too dark in low bright portion.
- 6. Check the proper picture variation by rotating the CONTRAST and BRIGHTNESS Controls to both extremes.
- 7. If the picture does not appear dark with the CONTRAST and BRIGHTNESS Controls turned to the minimum, or not appear bright with the controls turned to the maximum, adjust the SUB-BRI GHT. Control again for the acceptable picture.

PICTURE I-F SWEEP ALIGNMENT

GENERAL	Refer to figure 4 for test equipment connection.
PRELIMINARY STEPS	 Supply + 12 volts to the IF Board.
	2. Short the collector of QN15 to ground. Short the pin 24 of IC101
	through the 10µF to ground.
SWEEP/MARKER GENERATOR	Connect to pin 6 of P101 as shown in figure 4 on the IF Board.
	Set to 30 ~ 40 MHz sweep with signal level of 75 ~ 85 dBμ.
	Connect to pin 1 of IC101 on the IF Board through the detector.

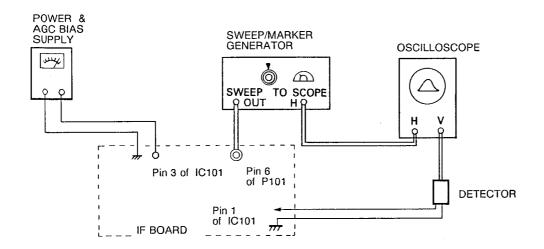


Figure 4. Picture IF Sweep Alignment

STEP	SWEEP/MARGER GENERATOR	ADJUST	REMARKS
Detector Coil	37.4 MHz Marker "ON"	L151	 Short the collector of QN08 on the IF Board to ground. Supply +2 to +3 volts to pin 3 of IC101 to set the output level for 0.4 Vp-p on the scope. Adjust L151 so that the marker position (37.4 MHz) on the response can lower to minimum. (See figure 5.) Remove the short of the collector of QN08. After completing CN51 adjustment, repeat this step again.
2. Detector Capacitor	32.7 MHz Marker "ON"	CN51	 Short the base of QN08 to ground. Supply +2 to +3 volts to pin 3 of IC101 to set the detection output for 0.4 Vp-p on the scope. Adjust CN51 so that the marker position (32.7 MHz) on the response can lower to minimum. (See figure 5.) Remove the short of base of QN08. After completing L151 adjustment, repeat the step again.

After completing the above steps, disconnect the equipment and re-solder the liniks on the Main Board, and adjust the AGC Delay control (R151) following DELAYED RF AGC ADJUSTMENTS.

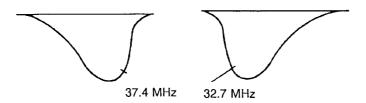


Figure 5. Magnified Response Curve

AFC ALIGNMENT

GENERAL	Refer to figure 6 for test equipment connection.
PRELIMINARY STEPS	Disconnect the IF Board from the Main Board.
	2. Disconnect the solder link on the foil side of IF Board.
	3. Supply +12 volts to the IF Board. (See figure 6.)
	4. Short the collector of QN15 to ground.
	5. Turn AGC DELAY Control (R151) on the IF Board fully clockwise.
DVM	Connect to the resistor R128 (@ in figure 6) and ground.

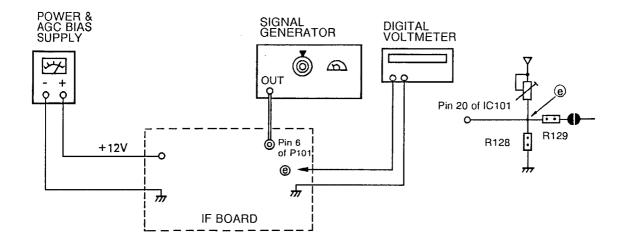


Figure 6. AFC Alignment

	STEP	SIGNAL GENERATOR	ADJUST	REMARKS
1.	AFC Balance (R153)	NO SIGNAL	R153	 Short the pin 3 of IC101 to ground. Adjust R153 for 4.5 volts at the point @ in figure 6.
2.	AFC Coil (L153)	37.4 MHz CARRIER WAVE (Level : 75 to 85 dBμ)	L153	 Remove the short of pin 3 of IC101. Short the collector of QN08 to ground. Connect IF carrier wave to the pin 6 of P101 in figure 6. Adjust L153 for 2.5 volts on the meter at the point ®. After completing L152 adjustment, repeat this step again.
3.	AFC Capacitor (L152)	32.7 MHz CARRIER WAVE (Level : 75 to 85 dbμ)	L152	 Remove the short of collector of QN08. Connect IF carrier wave to the pin 6 of P101 in figure 6. Adjust L152 for 2.5 volts on the meter at the point ®. After completing L153 adjustment, repeat this step again.

SECAM DET-OUT & SOUND IF ALIGNMENT

L SECAM DET-OUT (R152) ADJUSTMENT

- 1. Disconnect the IF Board from the Main Board.
- 2. Supply + 12 V to the IF Board. 2-1 Short the base of QN15 to ground. 2-2 Short the collector of QN08 to ground.
- 3. Set AGC to Self AGC condition.
- 4. Connect synchroscope to the emitter of Q103 through 10:1 probe.
- 5. Connect the 2-signal generator to IF input, and set up the generator as described below.

IF frequency Signal level

32.7 MHz

Video modulation

75 to 85 dB_µ

Positive modulation:

97%

Video signal fH

15.625 kHz

Picture

Pattern with 100% white

6. Adjust the AC LEVEL Control (R152) for 2.0Vp-p on the scope.

I-PAL SIF DET (L652) ADJUSTMENT

- Supply +12V to pin 11 of P601.
 Supply +12V to pin 1 of P601.
- 3. Connect SIF generator to base of Q602 through 0.01 µF capacitor.
- 4. Connect the oscilloscope to pin 3 of P601.
- 5. Set up the SIF generator as described below.

Sound carrier frequency: Modulation frequency Frequency deviaiton

Signal level

6.0 MHz 1000 Hz ±15 kHz

80 dB_µ

(50 ohm load)

6. Adjust L652 for the maximum response of 1000 Hz det-out on scope.

B/G-PAL SOUND DET (L651) ADJUSTMENT

- 1. Connect pin 11 of P601 to ground.
- Supply + 12V to pin 1 of P601.
 Connect the SIF generator to base of Q602 through 0.01 µF capacitor.
- 4. Connect the oscilloscope to pin 3 of P601.
- 5. Set up the SIF generator as described below.

Sound carrier frequency: Modulation frequency Frequency deviaiton

5.5 MHz 1000 Hz ± 15 kHz

Signal level 80 dBµ

(50 ohm load)

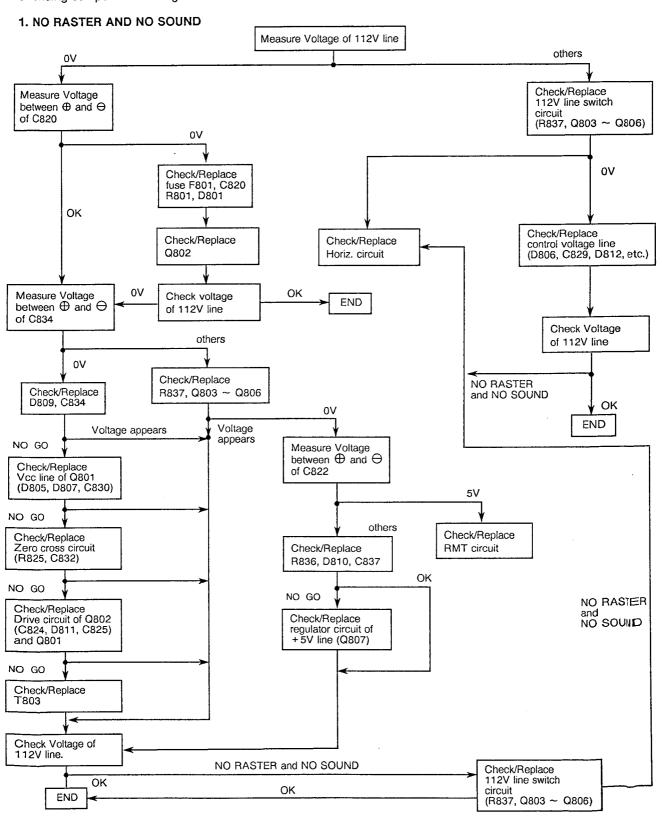
6. Adjust L651 for the maximum response of 1000 Hz det-out on scope.

TROUBLESHOOTING CHARTS

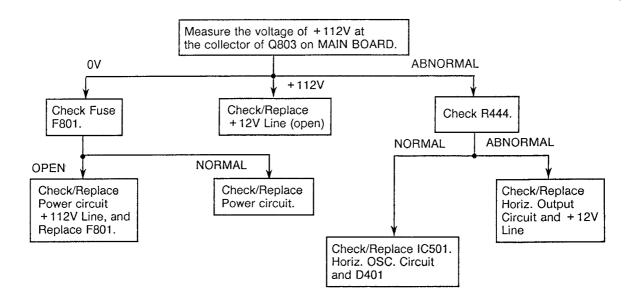
The following charts are devoted to troubleshooting which, if followed carefully, will assist you in tracking down a fault to the correct stage.

In order to utilize the charts (fault trees), firstly establish the complaint, i.e. - No Raster, No Sound.

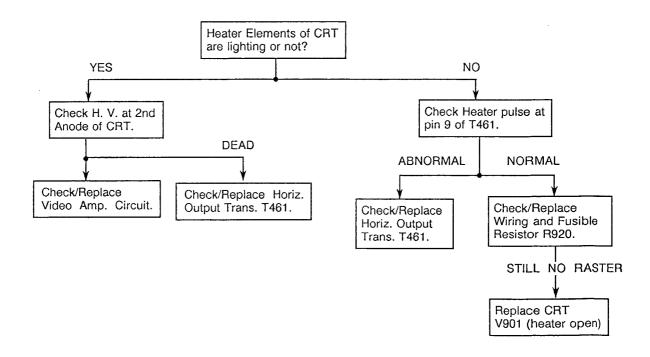
Locate the chart applicable and then progress through the various alternatives until a final block indicates the offending components or stage.



2. NO RASTER (NOISE OR WEAK SOUND)

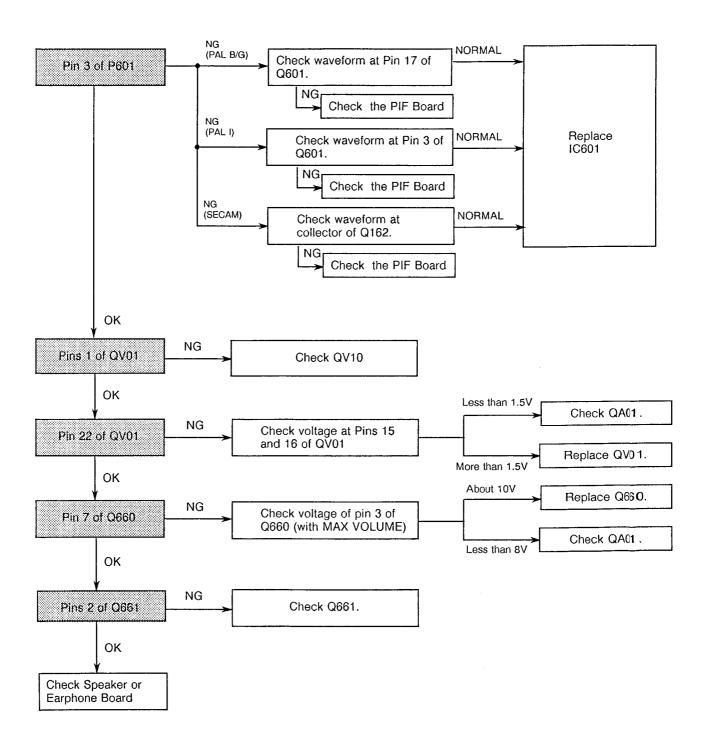


3. NO RASTER (SOUND OK)



4. NO SOUND

Note: Check the sound signal waveform for shaded area below.



5. NO PICTURE

Check video signal waveform for shaded area below.

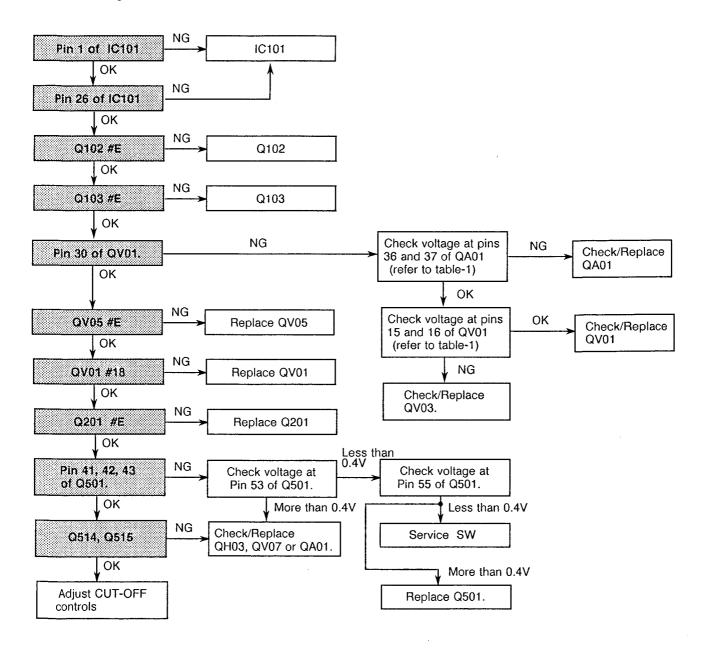


Table-1 (A/V SW. LOGIC)

MODE	QA01		QV01	
	Pin 36	Pin 37	Pin 15	Pin 16
TV	*H	*H	*H	*H
VIDEO-1	Н	L	Н	L
VIDEO-2	L	L	L	L
VIDEO-2S	L	Н	L	Н

L: Less than 2.5V H: More than 2.5V

* marks denote as follows.

AV SW LOGIC is same as VIDEO-1 mode when pin 8 of 21 PIN-1 is high level.

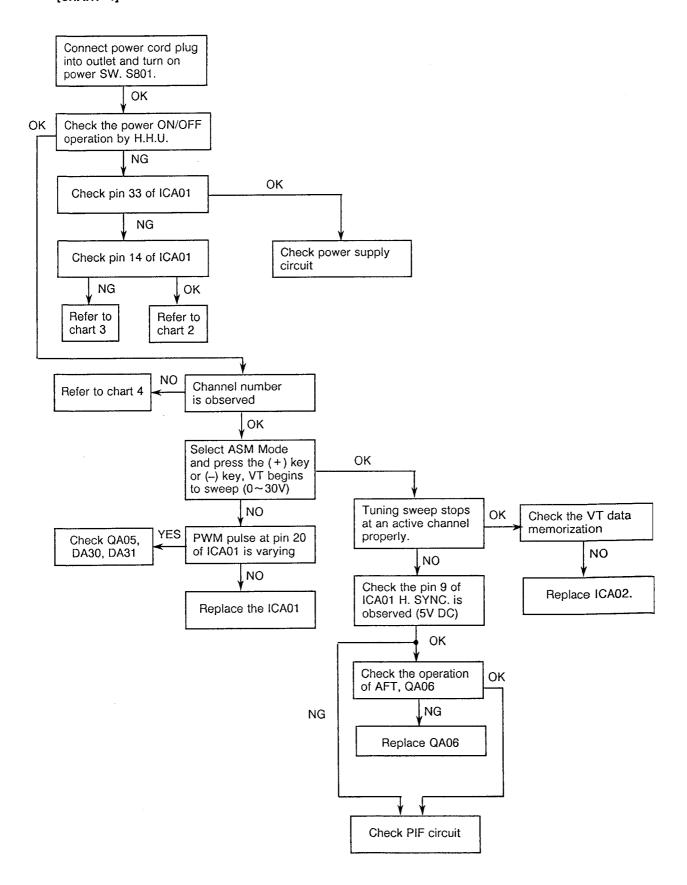
AV SW LOGIC is same as VIDEO-2 mode when pin 8 of 21 PIN-1 is high level.

AV SW LOGIC is same as VIDEO-1 mode when pin 8 of 21 PIN-1 and 21 PIN-2 are

Note:

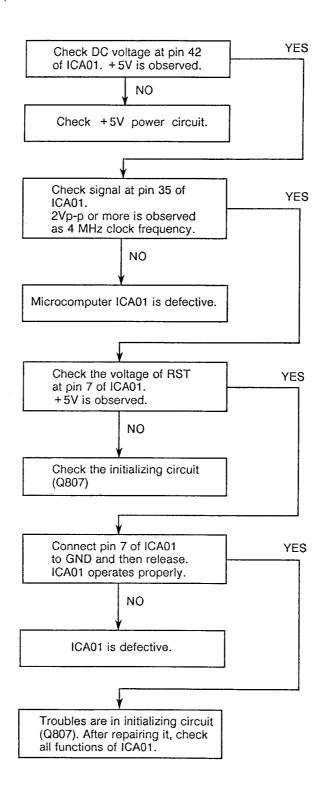
high level.

6. CHANNEL SELECTOR TROUBLE [CHART 1]



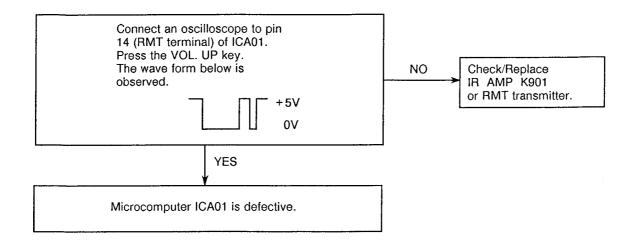
[CHART 2] Microcomputer (ICA01) Operation Check

NOTE: Before checking Microcomputer, check that control buttons and their connection work properly.

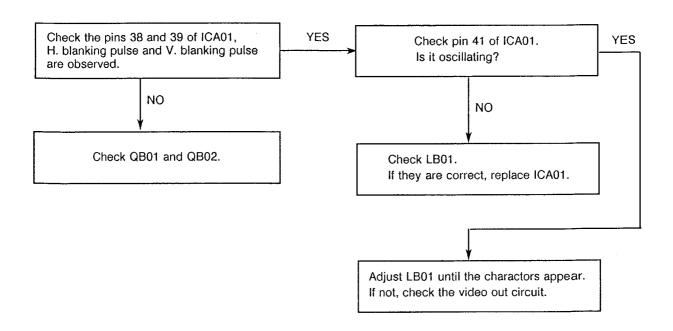


[CHART 3] Remote Control Operation Check

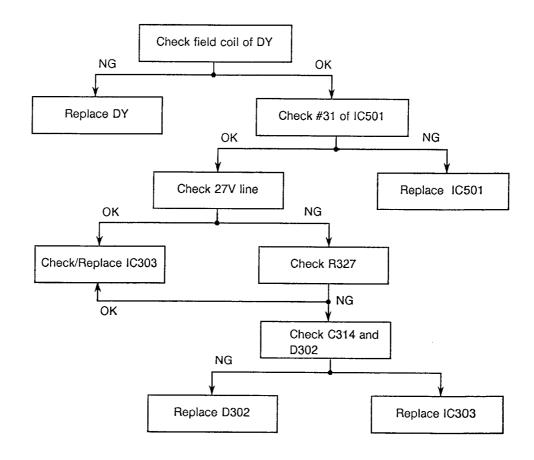
Note: Before checking RMT operation, check that key operation on TV set is proper.



[CHART 4] On Screen Display Operation Check



7. NO VERT. SCAN (ONE HORIZ. LINE RASTER)



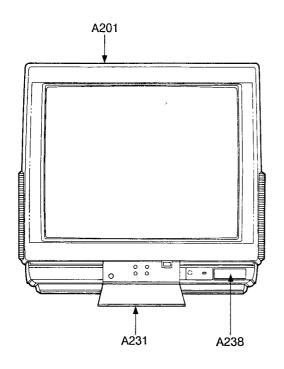
8. OUT OF VERT. SYNC. AND HORIZ. SYNC.

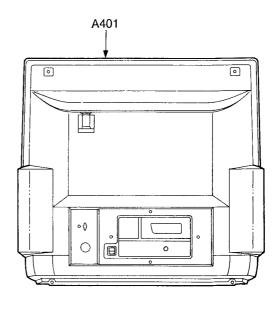
Check/Replace Sync Circuit pin 33 of IC501.

9. OUT OF HORIZ. SYNC.

Check/Replace Horiz. OSC Circuit and Horiz. AFC Circuit connected to Pins 36, 37 and 38 of IC501. Check/Replace IC501.

CABINET REPLACEMENT PARTS LIST





1500RFT

Part No.	Description
23418560	Front Cover
23423617	Door
70368125	Push Catch for Door
23443481	Knob, POWER
23423618	Back Cover
23998598	Label, Model No., B/C
23864163	Frame
23523658	Carton Box
23934268	Packing, Top
23934269	Packing, Bottom
23998599	Label, Model No., Carton
23124935	Aerial, VHF Telescopic
23293988	Adapter, Aerial Matching
	23418560 23423617 70368125 23443481 23423618 23998598 23864163 23523658 23934268 23934269 23998599 23124935

1501RFZ

Location No.	Part No.	Description
A201 A231 A232 A238	23418562 23423617 70368125 23443481	Front Cover Door Push Catch for Door Knob, POWER
A401 A411 A412 A701 A702 A703 A711 Y125 Y145	23423620 23998598 23864163 23523658 23934268 23934269 23998600 23124935 23293988	Back Cover Label, Model No., B/C Frame Carton Box Packing, Top Packing, Bottom Label, Model No., Carton Aerial, VHF Telescopic Adapter, Aerial Matching

1500RFW

Location No.	Part No.	Description
A201	23418615	Front Cover
A231	23422272	Door
A232	70368125	Push Catch for Door
A238	23443234	Button, POWER
A401	23423618	Back Cover
A411	23567016	Label, Model No., B/C
A412	23864163	Frame
A701	23523658	Carton Box
A702	23934268	Packing, Top
A703	23934269	Packing, Bottom
A711	23567017	Label, Model No., Carton
Y125	23124935	Aerila, VHF Telescopic
Y145	23293988	Adapter, Aerial Matching

CHASSIS REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

CAUTION: The international hazard symbols in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

NOTICE: The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.

ABBREVIATIONS:

Capacitors....... CD : Ceramic Disk PF : Plastic Film EL : Electrolytic Resistors....... CF : Carbon Film CMF : Oxide Metal Film VR : Variable Resistor FR : Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Part No.	Description
CAPACITORS		
C101	24212102	CD, 1000pF, ±10%
C102	24212102	CD, 1000pF, ±10%
C104	24797220	EL, 22μF, 50V
C105	24232103	CD, 0.01μ F, $+80\%$, -20%
C106	24636229	EL, 2.2μF, 50V
C107	24550473	PF, 0.047μF, 63V
C108	24636010	EL, 1μF, 50V
C109	24232103	CD, 0.01μ F, $+80\%$, -20%
C110	24232103	CD, 0.01μ F, $+80\%$, -20%
C111	24636229	EL, 2.2μF, 50V
C112	24436510	CD, 51pF
C113	24636478	EL, 0.47μF, 50V
C114	24794470	EL, 47μF, 16V
C115	24232103	CD, 0.01μ F, $+80\%$, -20%
C116	24232103	CD, 0.01μF, +80%, -20%
C117	24085029	EL, 4.7 μ F, 16V, Non-Polar
C118	24232103	CD, 0.01μ F, $+80\%$, -20%
C119	24232103	CD, 0.01μ F, $+80\%$, -20%
C120	24212222	CD, 2200pF, ±10%
C121	24085988	EL, 1μF, ±20%, 50V,
		Non-Polar
C122	24550153	PF, 0.015μF, 63V
C123	24636478	EL, 0.47μF, 50V
C124	24794101	EL, 100μF, 16V
C125	24232103	CD, 0.01μ F, $+80\%$, -20%
C126	24212152	CD, 1500pF, ±10%
C127	24794471	EL, 470μF, 16V
C161	24212102	CD, 1000pF, ±10%
C162 C163	24212102	CD, 1000pF, ±10%
C163	24212102	CD, 1000pF, ±10%
C165	24232103 24212102	CD, 0.01μF, +80%, -20%
C166	24212102	CD, 1000pF, ±10%
C167	24212102	CD, 1000pF, ±10% CD, 56pF
C168	24333360	CD, 56PF CD, 0.01μF, +80%, -20%
C169	24232103	CD, 0.01μF, +80%, -20% CD, 0.01μF, +80%, -20%
C170	24232103	CD, $0.01\mu\text{F}$, $+80\%$, -20% CD, $0.01\mu\text{F}$, $+80\%$, -20%
C2O1	24636100	EL, 10μF, 50V
C2O2	24795101	EL, 100μF, 25V
C2O3	24232103	CD, 0.01μF, +80%, -20%
	-7202100	$0.01\mu i$, -0.070 , -20%

	 	
Location	Part No.	Description
No.		·
C204	24797220	EL, 22μF, 50V
C205	24636478	EL, 0.47μF, 50V
C208	24212102	CD, 1000pF, ±10%
C209	24232103	CD, 0.01μ F, $+80\%$, -20%
C210	24636100	EL, 10μF, 50V
C211	24212561	CD, 560pF, ±10%
C212	24636010	EL, 1μF, 50V
C213	24550104	PF, 0.1μF, 63V
C214	24633101	EL, 100μF, 16V
C240	24530474	PF, 0.47μ F, $\pm 10\%$, 63V
C241	24633100	EL, 10μF, 16V
C301	24636229	EL, 2.2μF, 50V
C302	24212152	CD, 1500pF, ±10%
C303	24617912	EL, 2.2μ F, $\pm 10\%$, 50V
C304	24212102	CD, 1000pF, ±10%
C307	24232103	CD, 0.01μ F, $+80\%$, -20%
C312	24593243	PF, 0.024μF
C313	24755101	EL, 100μF, 35V
C314	24796102	EL, 1000μF, 35V
C315	24214221	CD, 220pF, ±10%, 500V
C316	24667332	EL, 3300μ F, $\pm 20\%$, 25 V
C317	24617912	EL, 2.2μF, ±10%, 50V
C318	24082049	PF, 0.047μF, 100V
C319	24693104	PF, 0.1μF, 100V
C321	24214561	CD, 560pF, ±10%, 500V
C328	24212272	CD, 2700pF, ±10%
C402	24353271	CD, 270pF
C403	24636339	EL, 3.3μF, 50V
C405	24593203	PF, 0.02μF
C406	24593203	PF, 0.02μF
C407	24593243	PF, 0.024μF
C408	24636100	EL, 10μF, 50V
C409	24232103	CD, 0.01μF, +80%, -20%
C412	24550182	PF, 1800pF, 63V
C413	24550182	PF, 1800pF, 63V
C414	24591202	PF, 2000pF
C416	24214271	CD, 270pF, ±10%, 500V
C423	24232103	CD, 0.01μ F, $+80\%$, -20%
C424	24795470	EL, 47μF, 25V
C425	24794101	EL, 100μF, 16 V
<u> </u>	24095636	PF, 7200pF, ±3%, 1600V

Location	Part No.	Description
No.	Tare No.	
C441	24214221	CD, 220pF, ±10%, 500V
C443	24214221	CD, 220pF, ±10%, 500V
C445	24095903	PF, 0.056μF, ±10%, 250V
C447	24644479	EL, 4.7μF, 250V
C448	24795102	EL, 1000μF, 25V
C449	24794471	EL, 470μF, 16V
C451	24640908	EL, 33μF, ±20%, 160V
⚠ C463	24212222	CD, 2200pF, ±10%
C465	24095949	PF, 0.33μF, 200V
C502	24636100	EL, 10μF, 50V
C503	24436101	CD, 100pF
C504	24436101	CD, 100pF
C505	24550273	PF, 0.027μF, 63V
C506	24232103	CD, 0.01μ F, $+80\%$, -20%
C507	24530103	PF, 0.01μF, ±10%, 63V
C508	24085028	EL, 2.2μF, 25V, Non-Polar
C509	24797220	EL, 22μF, 50V
C510	24232103	CD, 0.01μF, +80%, -20%
C511	24232103	CD, 0.01μF, +80%, -20%
C512	24353200	CD, 20pF
C513	24353330	CD, 33pF EL, 22μF, 50V
C515	24636220	
C516	24530104	PF, 0.1μF, ±10%, 63V
C517	24530104	PF, 0.1μF, ±10%, 63V
C518	24232103	CD, 0.01μF, +80%, -20%
C519	24232103	CD, 0.01µF, +80%, -20%
C520	24636478	EL, 0.47μF, 50V
C521	24530474	PF, $0.47\mu\text{F}$, $\pm 10\%$, 63V
C522	24530474	PF, 0.47μF, ±10%, 63V
C523	24530474	PF, 0.47μF, ±10%, 63V
C524	24232103	CD, 0.01µF, +80%, -20%
C525	24436820	CD, 82pF CD, 82pF
C526 C527	24436820 24436820	CD, 82pF CD, 82pF
C527	24796220	EL, 22μF, 35V
C532	24436100	CD, 10pF, ±0.25pF
C533	24436300	CD, 30pF
C533	24436100	CD, 10pF, ±0.25pF
C535	24636100	EL, 10μF, 50V
C536	24636478	EL, 0.47μF, 50V
C537	24794101	EL, 100μF, 16V
C539	24232103	CD, 0.01μ F, $+80\%$, -20%
C540	24633100	EL, 10μF, 16V
C550	24232103	CD, 0.01μ F, $+80\%$, -20%
C551	24212102	CD, 1000pF, ±10%
C601	24212102	CD, 1000pF, ±10%
C603	24232103	CD, 0.01μ F, $+80\%$, -20%
C604	24794470	EL, 47μF, 16V
C605	24598911	PF, 910pF
C606	24598821	PF, 820pF
C607	24550104	PF, 0.1μF, 63V
C608	24636100	EL, 10μF, 50V
C609	24232103	CD, 0.01μ F, $+80\%$, -20%
C610	24232103	CD, 0.01μ F, $+80\%$, -20%
C611	24232103	CD, 0.01μ F, $+80\%$, -20%
C612	24436470	CD, 47pF
C613	24436470	CD, 47pF
C614	24232103	CD, 0.01μF, +80%, -20%
C615	24550473	PF, 0.047μF, 63V
C616	24550473	PF, 0.047μF, 63V
C617	24232103	CD, 0.01μ F, $+80\%$, -20%
C660	24085031	EL, 1μ F, $\pm 20\%$, 25 V,
		Non-Polar
C661	24636100	EL, 10μF, 50V
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Location	Part No.	Description
No.	rait ivo.	2000 P.1011
C662	24636100	EL, 10μF, 50V
C663	24797470	EL, 47μF, 50V
C664	24636010	EL, 1μF, 50V
C665	24796221	EL, 220μF, 35V
C666	24550104	PF, 0.1μF, 63V
C667	24795471	EL, 470μF, 25V
C668	24636478	EL, 0.47μF, 50V
C669	24550682	PF, 6800pF, 63V
C670	24634220	EL, 22μ F , 25V
C697	24550224	PF, 0.22μF, 63V
C698	24636479	EL, 4.7μF, 50V
C699	24634470	EL, 47μF, 25V
∆ C801	24098999	PF, 0.1μF, ±20%, AC250V
C805	24094656	CD, 2200pF, ±20%, AC400V
1		CD, 2200pF, ±20%, AC400V
C806	24094656	
C815	24092281	CD, 4700pF, ±20%, AC250V
C816	24092281	CD, 4700pF, ±20%, AC250V
C817	24092281	CD, 4700pF, ±20%, AC250V
C818	24092281	CD, 4700pF, ±20%, AC250V
C820	24086871	EL, 120μF, ±20%, 400V
C821	24436101	CD, 100pF
C822	24636100	EL, 10μF, 50V
C823	24550682	PF, 6800pF, 63V
C824	24630747	EL, 22μF, ±20%, 25V
C825	24212102	CD, 1000pF, ±10%
C826	24442331	CD, 330pF, ±10%, 2kV
C827	24232103	CD, 0.01μ F, $+80\%$, -20%
C828	24095914	PF, 2200pF, ±3%, 1600V
C829	24636010	EL, 1μF, 50V
i i		EL, 100μF, 50V
C830	24797101	
C831	24436331	CD, 330pF
C832	24593822	PF, 8200pF
C833	24442181	CD, 180pF, ±10%, 2kV
C834	24086953	EL, 220μF, ±20%, 160V
C835	24797220	EL, 22μF, 50V
C836	24214331	CD, 330pF, ±10%, 500V
C837	24795222	EL, 2200μF, 25V
C901	24644479	EL, 4.7μ F , 250V
C902	24095923	PF, 4700pF, 1600V
CA01	24436101	CD, 100pF
CA02	24232103	CD, 0.01μ F, $+80\%$, -20%
CA07	24212102	CD, 1000pF, ±10%
CA08	24232103	CD, 0.01μ F, $+80\%$, -20%
CA09	24794470	EL, 47μF, 16V
CA10	24232103	CD, 0.01μ F, $+80\%$, -20%
CA11	24530472	PF, 4700pF, ±10%, 63V
CA11	24212561	CD, 560pF, ±10%
CA12	24633100	EL, 10μF, 16V
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CA14	24794470	EL, 47μF, 16V
CA15	24232103	CD, 0.01μ F, $+80\%$, -20%
CA16	24232103	CD, $0.01\mu F$, $+80\%$, -20%
CA17	24232103	CD, $0.01\mu\text{F}$, $+80\%$, -20%
CA18	24232103	CD, $0.01\mu F$, $+80\%$, -20%
CA19	24232103	CD, 0.01μ F, $+80\%$, -20%
CA20	24636010	EL, 1μF, 50V
CA21	24436391	CD, 390pF
CA22	24436221	CD, 220pF
CA23	24530224	PF, 0.22μ F, $\pm 10\%$, 63V
CA24	24530334	PF, 0.033μ F, $\pm 10\%$, 63V
CA25	24636229	EL, 2.2μF, 50V
CA26	24232103	CD, $0.01\mu\text{F}$, $+80\%$, -20%
CA27	24232103	CD, $0.01\mu\text{F}$, $+80\%$, -20%
CA28	24550334	PF, 0.33μF, 63V
CA29	24232103	CD, 0.01μ F, $+80\%$, -20%
1 5/125	27202100	23, 0.0 (pit) 1 00 /d, 22 /d
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	Location No.	Part No.	Description
	CA30	24636479	EL, 4.7μF, 50V
	CA31	24232103	CD, 0.01μ F, $+80\%$, -20%
	CA32 CA35	24794471	EL, 470μF, 16V
	CA35 CA36	24636479 24550104	EL, 4.7μF, 50V
	CA37	24232103	PF, 0.1μF, 63V CD, 0.01μF, +80%, +20%
	CB01	24212101	CD, 100pF, ±10%
i	CH01	24636010	EL, 1μF, 50V
	CH02	24636010	EL, 1μF, 50V
ı	CH03	24636010	EL, 1μF, 50V
	CH04	24636010	EL, 1μF, 50V
ı	CH05	24636010	EL, 1μF, 50V
	CH06 CH07	24636010	EL, 1μF, 50V
١	CM01	24636100 24436221	EL, 10μF, 50V
1	CM02	24436221	CD, 220pF CD, 220pF
1	CM05	24232103	CD, 0.01μF, +80%, -20%
l	CM06	24357270	CD, 27pF
Į	CM07	24550563	PF, 0.056μF, 63V
1	CM08	24232103	CD, 0.01μF, +80%, -20%
ı	CM10	24436270	CD, 27pF
ı	CN02	24436150	CD, 15pF
ļ	CN07 CN09	24436360 24232103	CD, 36pF CD, 0.01μF, +80%, -20%
1	CN10	24436101	CD, 0.01µF, +80%, -20% CD, 100pF
l	CN11	24353080	CD, 8pF, ±0.25pF
I	CN12	24353220	CD, 22pF
ı	CN13	24232103	CD, 0.01μF, +80%, -20%
ı	CN16	24212102	CD, 1000pF, ±10%
ı	CN22	24232103	CD, 0.01μ F, $+80\%$, -20%
	CN51	24094959	Variable Capacitor, 2 to
L	CV01	24636229	12pF, 50V EL, 2.2μF, 50V
ı	CV03	24636100	EL, 10μF, 50V
l	CV11	24636229	EL, 2.2μF, 50V
l	CV13	24636100	EL, 10μF, 50V
l	CV15	24636010	EL, 1μF, 50V
l	CV16	24232103	CD, 0.01μF, +80%, -20%
l	CV17 CV18	24232103	CD, 0.01μF, +80%, -20%
l	CV 16 CV 22	24633100 24633100	EL, 10μF, 16V EL, 10μF, 16V
l	CV24	24633471	EL, 470μF, 16V
l	CV27	24633100	EL, 10μF, 16V
	CV29	24085028	EL, 2.2μF, 25V, Non-Polar
	CXO2	24530474	PF, 0.47μF, ±10%, 63V
l	CX03	24530474	PF, 0.47μF, ±10%, 63V
	CX04	24530474	PF, 0.47μF, ±10%, 63V
F	RESISTORS		·
	R101	24366222	CF, 2200 ohm
	R102	24366124	CF, 120k ohm
	R103	24366222	CF, 2200 ohm
	R104	24366332	CF, 3300 ohm
	R105	24366153	CF, 15k ohm
	R106 R107	24366104	CF, 10k ohm
	R108	24366103 24366102	CF, 10k ohm CF, 1k ohm
	R109	24366822	CF, 8200 ohm
	R110	24366562	CF, 5600 ohm
	R111	24366561	CF, 560 ohm
	R112	24366332	CF, 3300 ohm
	R113	24366132	CF, 1300 ohm
	R114 R115	24366222	CF, 2200 ohm
		24366101	CF, 100 ohm
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Location	Part No.	Description
No.		,
R116	24366471	CF, 470 ohm
R117	24366112	
R118	24366470	
R119	24366472	CF, 4700 ohm
R120	24366154	
R121 R122	24366331	/ +
R123	24366820 24366271	CF, 82 ohm CF, 270 ohm
R124	24366181	CF, 180 ohm
R125	24366331	CF, 330 ohm
R126	24366101	•
R127	24552101	OMF, 100 ohm, 1/2W
R128	24366334	CF, 330k ohm
R129	24366101	CF, 100 ohm
R130	24366513	CF, 51k ohm
R131	24366753	CF, 75k ohm
R132 R133	24366684 24366272	/
R134	24366272	CF, 2700 ohm CF, 22k ohm
R135	24366151	CF, 150 ohm
R136	24366680	CF, 68 ohm
R137	24366103	CF, 10k ohm
R138	24366103	CF, 10k ohm
R151	24066953	VR, 5k ohm, 1/10W
R152	24066951	VR, 20k ohm, 1/10W
R153	24066946	VR, 1M ohm, 1/10W
R162	24366680	CF, 68 ohm
R163 R164	24366472	CF, 4700 ohm
R165	24366122 24366562	CF, 1200 ohm CF, 5600 ohm
R166	24366560	CF, 56 ohm
R167	24552101	OMF, 100 ohm, 1/2W
R168	24366680	CF, 68 ohm
R169	24366682	CF, 6800 ohm
R170	24366102	CF, 1k ohm
R171	24366562	CF, 5600 ohm
R172	24366101	CF, 100 ohm
R173 R175	24552101 24366121	OMF, 100 ohm, 1/2W
R201	24366221	CF, 120 ohm CF, 220 ohm
R202	24366101	CF, 100 ohm
R203	24366182	CF, 1800 ohm
R204	24366152	CF, 1500 ohm
R205	24366392	CF, 3900 ohm
R208	24366101	CF, 100 ohm
R209	24366103	CF, 10k ohm
R210 R211	24366203	CF, 20k ohm
R212	24366622 24366103	CF, 6200 ohm
R213	24366101	CF, 10k ohm CF, 100 ohm
R214	24366182	CF, 1800 ohm
R215	24366152	CF, 1500 ohm
R216	24366333	CF, 33k ohm
R217	24366101	CF, 100 ohm
R218	24366472	CF, 4700 ohm
R219	24366472	CF, 4700 ohm
R220	24366753	CF, 75k ohm
R221 R222	24366564	CF, 560k ohm
R223	24366751	CF, 750 ohm
R224	24366103 24366333	CF, 10k ohm CF, 33k ohm
R225	24366132	CF, 1300 ohm
R226	24366104	CF, 100k ohm
R227	24366105	CF, 1M ohm

Location	Part No.	Description
No.	Fait No.	Description
R228	24366104	CF, 100k ohm
R229	24366303	CF, 30k ohm
R230	24366102	CF, 1k ohm
R231	24366103	CF, 10k ohm
R232	24366473	CF, 47k ohm
R233	24366102	CF, 1k ohm
R234	24366223	CF, 22k ohm
R235	24366473	
R236	24366103	•
R237	24366224	CF, 220k ohm
R241	24366101	
R242	24366223	
R243	24366183	
R244	24366103	
	24366103	
R245		
R252	24066598	VD, 2k ohim, 1/10VV
R253	24066598	VR, 2k ohm, 1/10W
R255		VR, 20k ohm, 1/10W
R301	24366301	CF, 300 ohm
R302	24366244	
R303	24366363	,
R304	24366102	
R305	24366161	
R306	24366471	CF, 470 ohm
R309	24366102	CF, 1k ohm
R311	24552242	OMF, 2400 ohm, 1/2W
R316	24552821	OMF, 820 ohm, 1/2W
R317	24383271	OMF, 270 ohm, 2W
R318	24366183	CF, 18k ohm
R321	24366243	CF, 24k ohm
R322	24366105	CF, 1M ohm
R323	24322129	OMF, 1.2 ohm, 1W
R325	24552122	OMF, 1200 ohm, 1/2W
∕ R327	24531100	FR, 10 ohm, 1/2W
R329	24552472	OMF, 4700 ohm, 1/2W
R333	24366471	
R351	24066602	
R402	24366273	
	24366302	
R403		
R404	24552432	· · · · · · · · · · · · · · · · · · ·
R405	24366511	
R407	24366161	CF, 160 ohm
R408	24366682	CF, 6800 ohm
R411	24366391	CF, 390 ohm
R412	24366121	CF, 120 ohm
⚠ R416	24007566	Cement, 2k ohm, 5W
R420	24009951	OMF, 1k ohm, 1W
R421	24366104	CF, 100k ohm
R423	24552221	OMF, 220 ohm, 1/2W
R440	24376243	CF, 24k ohm, 1/2W
R441	24552103	OMF, 10k ohm, 1/2W
R442	24382751	OMF, 750 ohm, 1W
R444	24321109	OMF, 1 ohm, 1/2W
R445	24552330	OMF, 33 ohm, 1/2W
R448	24984279	MF, 2.7 ohm, 2W
R451	24066601	VR, 20k ohm, 1/10W
R452	24069814	VR, 5k ohm, 0.08W, CC
R501	24366821	CF, 820 ohm
R502	24366334	CF, 330k ohm
	24366202	CF, 2k ohm
R503		CF, 28 onin CF, 390 ohm
R504	24366391	· ·
R505	24366822	
R507	24366822	-
R508	24366821	CF, 820 ohm
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Location	N	.
No.	Part No.	Description
IVO.		
D500	0.4000000	OF 201: -1:
R509	24366203	CF, 20k ohm
R510	24366101	CF, 100 ohm
R511	24366562	CF, 5600 ohm
R512	24366152	CF, 1500 ohm
R513		CF, 1500 ohm
R515	24366221	CF, 220 ohm
R516	24366221	CF, 220 ohm
R517	24366221	CF, 220 ohm
R521	24366562	CF, 5600 ohm
R522	24366562 24360185	CF, 1.8M ohm, 1/8W
R523	24366102	CF, 1k ohm
i .		
R524	24366103	CF, 10k ohm
R525	24366103	CF, 10k ohm
R526	24366122	CF, 1200 ohm
R527	24366122	CF, 1200 ohm
∧ R529	24007622	Cement, 5100 ohm, 5W
R531	24366102	CF, 1k ohm
	24300102	CE 2700 abm
R532	24366272	CF, 2700 ohm
R533	24366132	•
R534	24376823	CF, 82k ohm, 1/2W
R535	24366272	CF, 2700 ohm
R536	24376823	CF, 82k ohm, 1/2W
R537	24366132	CF, 1300 ohm
R538	24366302	
R539	24366132	
R540	24376823	CF, 82k ohm, 1/2W
R541	24366821	CF, 820 ohm
R542	24366271	CF, 270 ohm
R543	24366512	CF, 5100 ohm
R544	24366101	CF, 100 ohm
1		-
R545	24366101	CF, 100 ohm
R547	24366471	
R548	24366471	CF, 470 ohm
R549	24366471	CF, 470 ohm
R551	24066955	VR, 1k ohm, 1/10W
R557	24066598	VR, 2k ohm, 1/10W
R558	24066598	VR, 2k ohm, 1/10W
1		
R559	24066598	VR, 2k ohm, 1/10W
R564	24366101	CF, 100 ohm
R565	24366101	CF, 100 ohm
R567	24366101	CF, 100 ohm
R570	24366562	CF, 5600 ohm
R571	24366562	CF, 5600 ohm
R572	24366562	CF, 5600 ohm
		•
R573	24366104	CF, 100k ohm
R591	24009957	OMF, 10k ohm, 2W
R592	24009957	OMF, 10k ohm, 2W
R593	24009957	OMF, 10k ohm, 2W
R601	24366102	CF, 1k ohm
R602	24366561	CF, 560 ohm
I _	24366563	CF, 56k ohm
R604	*	
R605	24366563	CF, 56k ohm
R606	24366102	CF, 1k ohm
R607	24366102	CF, 1k ohm
R608	24366101	CF, 100 ohm
R609	24366102	CF, 1k ohm
R610	24366102	CF, 1k ohm
R611	24366102	CF, 1k ohm
1		•
R615	24366102	CF, 1k ohm
R625	24366102	CF, 1k ohm
R626	24366102	CF, 1k ohm
R627	24366103	CF, 10k ohm
R628	24366473	CF, 47k ohm
R629	24366105	CF, 1M ohm
	2.300.00	, o
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Location No.	Part No.	Description
R630	24366105	CF, 1M ohm
R631	24366562	CF, 5600 ohm
R632	24366223	
R633	24366472	CF, 4700 ohm
R634	24366682	CF, 6800 ohm
R635	24366103	
R660	24366102	CF, 1k ohm
R661	24366332	
R662	24552181	OMF, 180 ohm, 1/2W
R665	24366339	CF, 3.3 ohm
R666	24366912	CF, 9100 ohm
R668	24366152	CF, 1500 ohm
R669	24552331	OMF, 330 ohm, 1/2W
R690	24366273	CF, 27k ohm
R691	24366223	CF, 22k ohm
R692	24366104	CF, 100k ohm
R693	24366103	CF, 10k ohm
R694	24366152	CF, 1500 ohm
R695	24366222	CF, 2200 ohm
R696	24366223	CF, 22k ohm
R697	24366104	
R698	24366102	
R699	24366103	CF, 10k ohm
R801	24004914	Varistor, 5.6M ohm, 1/2W
<u>∱</u> R802	24007932	Cement, 6.2 ohm, 10W
R810	24377334	CF, 330k ohm, 1W
R814	24366823	CF, 82k ohm
R815	24366221	CF, 220 ohm
R816	24367122	CF, 1200 ohm, ±2%
R817	24321398	OMF, 0.39 ohm, 1/2W
R818	24384203	OMF, 20k ohm, 3W
R819	24366689	CF, 6.8 ohm
R820	24366102	CF, 1k ohm
<u>∿</u> R821	24007778	Cement, 180 ohm, 7W
R822	24366390	•
R823	24367562	CF, 5600 ohm, ±2%
R824	24366123	CF, 12k ohm
∑ R825	24531620	
∆ R826	24007552	Cement, 8200 ohm, 5W
R828	24367102	•
R829	24382473	OMF, 47k ohm, 1W
R830	24366272	CF, 2700 ohm
R831	24366103	CF, 10k ohm
R832	24383331	OMF, 330 ohm, 2W
∆ R834	24532130	FR, 13 ohm, 1W
R836	24322228	OMF, 0.22 ohm, 1W
NR837	24000900	FR, 0.47 ohm, ±10%, 1W
R838	24366392	CF, 3900 ohm
R851	24066954	VR, 2k ohm, 1/10W
∑ R890	24000630	PTC Thermistor, Dual
R901	24946272	CC, 2700 ohm, ±10%, 1/2W
R902	24946272	CC, 2700 ohm, ±10%, 1/2W
R903	24946272	CC, 2700 ohm, ±10%, 1/2W
∑ R920	24000929	FR, 1.5 ohm, 2W
RAO1	24366102	CF, 1k ohm
RAO2	24366102	CF, 1k ohm
RAO5	24366101	CF, 100 ohm
RAO6	24366101	CF, 100 ohm
RA07	24366101	CF, 100 ohm
	202663112	CF, 1k ohm
RAO8	24366102	•
RAO8 RAO9	24366103	CF, 10k ohm
RAO8		

Location	Part No.	Description
No.		
RA13	24366472	CF, 4700 ohm
RA14	24366102	CF, 1k ohm
RA17	24366102	CF, 1k ohm
RA19	24366103	CF, 10k ohm
RA20	24366102	CF, 1k ohm
RA21	24366103	CF, 10k ohm
RA22	24366103	CF, 10k ohm
RA23	24366471	CF, 470 ohm
RA24	24366102	CF, 1k ohm
RA25	24366103	CF, 10k ohm
RA27	24366392	CF, 3900 ohm
RA28	24366471	CF, 470 ohm
RA31 RA33	24366102	CF, 1k ohm CF, 10k ohm
RA35	24366103 24366103	CF, 10k ohm
RA36	24366102	CF, 1k ohm
RA37	24366102	CF, 1k ohm
RA38	24366153	CF, 15k ohm
RA39	24366153	CF, 15k ohm
RA40	24366473	CF, 47k ohm
RA41	24366153	CF, 15k ohm
RA42	24366473	CF, 47k ohm
RA43	24366153	CF, 15k ohm
RA44	24366102	CF, 1k ohm
RA45	24366223	CF, 22k ohm
RA46	24366333	CF, 33k ohm
RA48	24366153	CF, 15k ohm
RA49 RA60	24366103	CF, 10k ohm CF, 10k ohm
RA61	24366103 24360225	CF, 10k onm CF, 2.2M ohm, 1/8W
RA62	24366102	CF, 1k ohm
RA64	24946226	CC, 22M ohm, ±10%, 1/2W
RA67	24366273	CF, 27k ohm
RA68	24366123	CF, 12k ohm
RA69	24366823	CF, 82k ohm
RA70	24366153	CF, 15k ohm
RA73	24366223	CF, 22k ohm
RA74	24366223	CF, 22k ohm
RA75	24366102	CF, 1k ohm
RA78	24366103	CF, 10k ohm
RA79 RA86	24366153 24366392	CF, 15k ohm CF, 3900 ohm
RA97	24383103	OMF, 10k ohm, 2W
RB01	24366333	CF, 33k ohm
RB03	24366103	CF, 10k ohm
RB04	24366103	CF, 10k ohm
RB05	24366332	CF, 3300 ohm
RB06	24366473	CF, 47k ohm
RC06	24366222	CF, 2200 ohm
RC08	24366222	CF, 2200 ohm
RE01	24366103	CF, 10k ohm
RE02	24366103	CF, 10k ohm
RE03	24366471	CF, 470 ohm
RE04	24366271	CF, 270 ohm
RE05 RE06	24366103 24366103	CF, 10k ohm CF, 10k ohm
RH01	24366103	CF, 10k ohm CF, 1k ohm
RH02	24366152	CF, 1500 ohm
RH03	24366102	CF, 1k ohm
RH04	24366182	CF, 1800 ohm
RH05	24366102	CF, 1k ohm
RH07	24366102	CF, 1k ohm
RH09	24366102	CF, 1k ohm
RH11	24366101	CF, 100 ohm

Location No.	Part No.	Description
RH32	24366332	CF, 3300 ohm
RM03	24366182	CF, 1800 ohm
RM04	24366242	CF, 2400 ohm
RM05	24366221	CF, 220 ohm
RM06	24366471	· ·
RN02	24366102	CF, 1k ohm
RN05	24366102 24366392 24366103	CF, 3900 ohm
RN08 RN16	24366103	CF, 10k ohm CF, 10k ohm
RN17	24366473	
RN19	24366473	
RN20	24366152	CF, 1500 ohm
RN21	24366103	
RN22	24366152 24366472	
RN23	24366472	CF, 4700 ohm
RN26	24366472	
RN27	24366153	CF, 15k ohm
RN28	24366332	CF, 3300 ohm
RN32	24366105	CF, 1M ohm
RN44	24366152 24366473	CF, 1500 ohm CF, 47k ohm
RN45 RN46		
RN47	24366103 24366473	CF. 47k ohm
RN48	24366103	
RN49	24366152	CF, 1500 ohm
RN60	24366103	
RN61	24366103	
RR01	24366102	CF, 1k ohm
RV01	24366821	
RV02	24366102	CF, 1k ohm
RV10	24366102	CF, 1k ohm
RV12	24366101	CF, 100 ohm CF, 10k ohm
RV13 RV14	24366103 24366103	CF, 10k ohm
RV15	24366101	
RV16	24366473	CF, 47k ohm
RV17		CF, 47k ohm
RV18	24366332	CF, 3300 ohm
RV19		CF, 3300 ohm CF, 2200 ohm
RV20		CF, 100 ohm
RV22		CF, 3300 ohm
RV23		CF, 47k ohm
RV24	24552750	OMF, 75 ohm, 1/2W
RV25	24366331	CF, 330 ohm CF, 390 ohm
RV26 RV27	24366391 24366473	CF, 47k ohm
RV27	24366472	CF, 4700 ohm
RV30	24366102	CF, 1k ohm
RV33	24366332	CF, 3300 ohm
RV34	24366473	CF, 47k ohm
RV37	24366473	CF, 47k ohm
RV39	24366910	CF, 91 ohm
RV40	24366680	CF, 68 ohm
RV41	24366103	CF, 10k ohm
RV42	24366750	CF, 75 ohm
RV43	24366510	CF, 51 ohm CF, 51 ohm
RV44	24366510 24366220	CF, 51 onm CF, 22 ohm
RV45 RV46	24366101	CF, 100 ohm
RV40	24366104	CF, 100k ohm
RV47	24366102	CF, 1k ohm
RV49	24366102	CF, 1k ohm
RV60	24366220	CF, 22 ohm
RV61	24366220	CF, 22 ohm
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Location	Dank Ma	Description
No.	Part No.	Description
110.		
DVCO	0.4000004.0	OF 51 above
RV62	24366510	CF, 51 ohm
RV63	24366562	CF, 5600 ohm
RV64	24366562	CF, 5600 ohm
RV65	24366104	CF. 100k ohm
I .		CF, 470 ohm
RV68	24366471	
RV69	24366223	CF, 22k ohm
RV70	24366273	CF, 27k ohm
RV71	24366332	CF, 3300 ohm
RX02	24366102	CF, 1k ohm
		•
RX05	24366101	CF, 100 ohm
RX08	24366101	CF, 100 ohm
RX10	24366101	CF, 100 ohm
RX13	24366102	CF, 1k ohm
פואת	24300102	CF, IK OHH
COILS & TF	RANSFORME	ERS
1 101	23237987	Coil, Peaking, TRF4100AC
L101		
L102	23262650	Coil, IF, TRF1149D
L103	23237986	Coil, Peaking, TRF4120AC
L104	23237988	Coil, Peaking, TRF4829AC
L107	23237987	Coil, Peaking, TRF4100AC
L151	23262668	Coil, IF, TRF1162T
L152	23262663	Coil, IF, TRF1157T
L153	23262813	Coil, IF, TRF1077D
L161	23261986	Coil, RF Choke, TRF9220
		Coil, RF Choke, TRF9221
L162	23261985	
L163	23262729	Coil, IF, TRF1143D
L201	23237974	Coil, Peaking, TRF4121AC
L311	23261974	Coil, Choke, HC5-035
L315	23289100	Coil, Peaking, TRF4100AF
L405	23221739	Coil, Choke, TRF9252D
L406	23103859	Coil (Ferrite Bead), TEM2011
L411	23233066	Coil, Linearity, TLN2112
L412	23221970	Coil, Choke, TLN3009
L413	23221722	Coil, Choke, TLN3142D
L441	23238934	Coil, Peaking, TRF4109AC
∕∧ L462	23227439	Deflection Yoke, AT6060/00
L503	23237987	Coil, Peaking, TRF4100AC
i		
L551	23250972	Coil, 1H-Delay Matching,
		TRF5418D
L590	23289221	Coil, Peaking, TRF4221AF
L601	23262835	Coil, PIF, TRF1058D
l .	23237986	· · · · · · · · · · · · · · · · · · ·
L604		Coil, Peaking, TRF4120AC
L651	23232942	Coil, Variable, TRF3077
L652	23232942	Coil, Variable, TRF3077
L801	23221050	Coil, RF Choke, TLN1015
	23103859	Coil (Ferrite Bead), TEM20 11
L802		
L803	23261975	Coil, Choke, TRF9229
L804	23261975	Coil, Choke, TRF9229
L805	23222694	Coil, Width, TLN2026
L806	23103859	Coil (Ferrite Bead), TEM20 11
		•
L807	23222694	Coil, Width, TLN2026
<u></u> 1901	23200780	Coil, Degaussing, TSB-2230
LA01	23238934	Coil, Peaking, TRF4109A0
LA02	23221685	Coil, Choke, TLN3193
i		· :
LB01	23262778	Coil, IF, TRF1112
LM01	23262797	Coil, IF, TRF1093D
LM02	23250865	Coil, IF, TRF5414DA
LM03	23250865	Coil, IF, TRF5414DA
1		Coil, IF, TRF1092D
LM04	23262798	The state of the s
LN02	23237985	Coil, Peaking, TRF4150AC
⚠ T401	23224983	Transformer, Horiz. Drive,
		TLN1039
△ T461	23236230	Transformer, Flyback,
(A) 1-101	20200200	•
[AT2079/15
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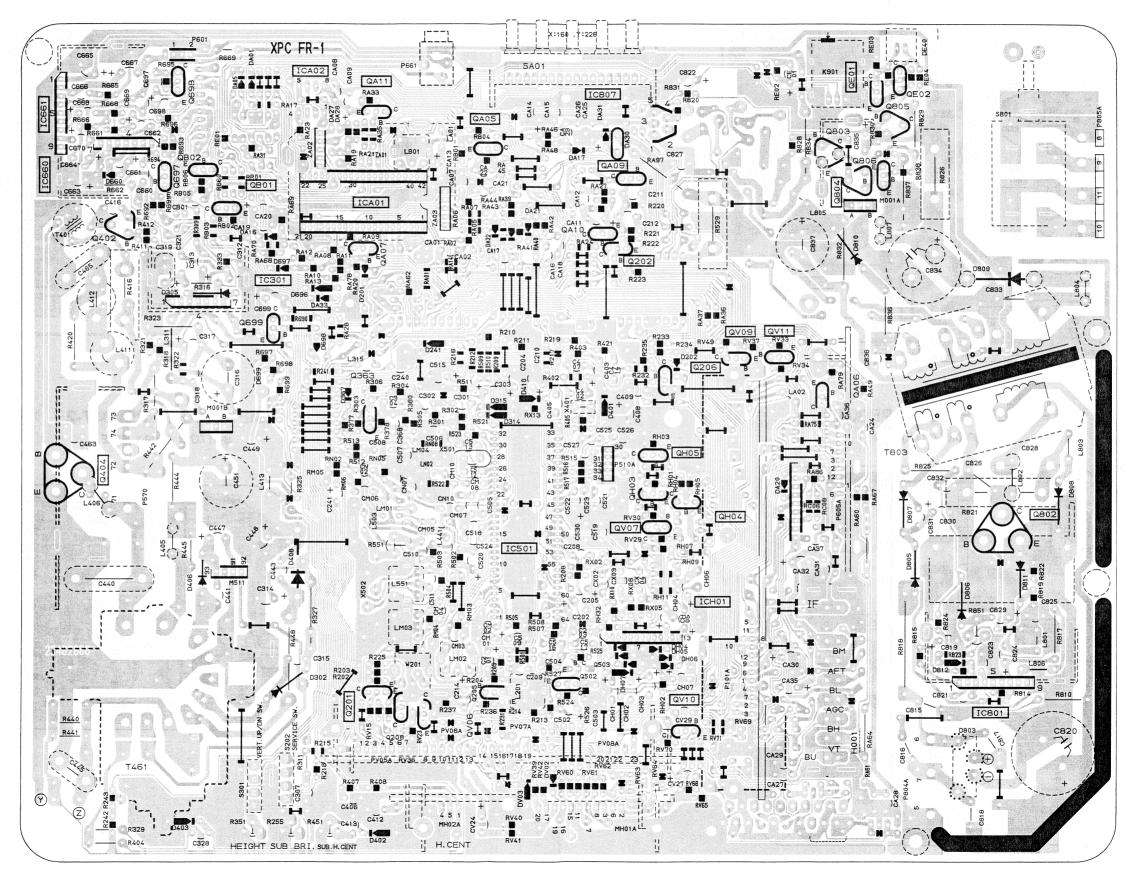
	Location No.	Part No.	Description	
ĺ	T801 <u>↑</u> T803	23211961 23217074	Line Filter, TRF3118 Transformer, Converter, 47003593	
	SEMICOND	UCTORS		
	IC101	23318437	IC, μPC1820CA	
ı	IC303	23119548	IC, AN5515	İ
1	IC601	23318390	IC, TDA4480-2	ı
	IC660	23318392	IC, AN5262	ı
- 1	IC661	23119668	IC, TDA2611A	١
İ	IC801	23318232	IC, TDA4601	ı
	IC807	23318299	IC, L78MR05-FA	ı
١	ICA01	23318480	IC, M34300M4580	l
- 1	ICA04	23119441	· · · · · · · · · · · · · · · · · · ·	I
-	ICH01	23119139	IC, AN5862K	ı
1	ICV01	B0383505	IC, TA8720AN	١
١	Q102	23114691	Transistor, BC557A	I
١	Q103	23118980	Transistor, BC337	ı
-1	Q104	23114689	Transistor, BC547A	ı
1	Q161	A6708871	Transistor, 2SC388ATM	l
ļ	Q162	A6708871	Transistor, 2SC388ATM	ı
1	Q163	A6708871	Transistor, 2SC388ATM	l
1	Q201	23114689	Transistor, BC547A	l
ļ	Q202	23114691	Transistor, BC557A	ĺ
ı	Q203	23114689	Transistor, BC547A	l
1	Q204	A6041876	Transistor, 2SK117-GR FA-2	
1	Q205	A6342200	Transistor, 2SC2878-A	l
ı	Q206	23114689	Transistor, BC547A	ı
l	Q208	23114689	Transistor, BC547A	ı
1	Q303B	23035308	Screw, BTB3X8SZN	ı
ı	Q402	A6330069	Transistor, 2SC2482 FA-1	
12	<u> </u>	A6868654	Transistor, 2SD1426	
ı	Q406	23314229	Transistor, 2SD1378-Q	ĺ
ı	Q501	B0379475	Transistor, TA8659AN	
ı	Q502	23114691	Transistor, BC557A	
ı	Q503	23114691	Transistor, BC557A	
ı	Q505	23114693	Transistor, BF871	
	Q506	23114689	Transistor, BC547A	
	Q507	23114693	Transistor, BF871	
ı	Q508	23114689	Transistor, BC547A	
ı	Q509	23114693	Transistor, BF871	
l	Q510	23114689	Transistor, BC547A	
	Q514	23114688	Transistor, BC327	
ı	Q516	23114689	Transistor, BC547A	
ı	Q602	23114689	Transistor, BC547A	
ı	Q603	23114689	Transistor, BC547A	
	Q604	A6041876	Transistor, 2SK117-GR FA-2	
	Q605	A6041876	Transistor, 2SK117-GR FA-2	
1	Q606	23114689	Transistor, BC547A	
l	Q607	23114689	Transistor, BC547A	
i	Q697	23114689	Transistor, BC547A	
ļ	Q698	A6342200	Transistor, 2SC2878-A	
I ؠ	Q699	23114691	Transistor, BC557A	
12	∆ Q802	23314376	Transistor, ON4409	
ı	O803	23314246	Transistor, 2SC2023 LF-4	
	Q804	A6547303	Transistor, 2SA1321	
l	Q805	A6325067	Transistor, 2SC2230A-Y	
Ī	Q806	23114546	Transistor, BC557B	
	QA05	23114689	Transistor, BC547A	
İ	QA06	23114689	Transistor, BC547A	
	QA07	23114689	Transistor, BC547A	
	QA09 QA10	23114691	Transistor, BC557A	
	QA10	23114689	Transistor, BC547A	
	<u> </u>	23114546	Transistor, BC557B	
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Location No.	Part No.	Description
QB01	23114689	Transistor PC547A
QB02	23114689	Transistor, BC547A Transistor, BC547A
QE01	23114691	Transistor, BC557A
QE02	23114691	Transistor, BC557A
QH03	23114689	Transistor, BC547A
QH04	23114689	Transistor, BC547A
QH05	23114689	Transistor, BC547A
QN08	23114689	Transistor, BC547A
QN09	23114689	Transistor, BC547A
QN11	A6041876	Transistor, 2SK117-GR FA-2
QN15	23114689	Transistor, BC547A
QN16 QV02	23114689	Transistor, BC547A
QV02	23114691 23114689	Transistor, BC557A
QV05	23114689	Transistor, BC547A Transistor, BC547A
QV06	23114689	Transistor, BC547A
QV07	23114689	Transistor, BC547A
QV09	23114632	Transistor, BC547B
QV10	23114689	Transistor, BC547A
QV11	A6342200	Transistor, 2SC2878-A
D201	23115599	Diode, 1N4148
D202	23115599	Diode, 1N4148
D241	A7150041	Diode, 1SS104
D302	23118479	Diode, BYD33J
D305 D314	23118479 A7117205	Diode, BYD33J
D315	A7117205 A7116715	Diode, Zener, 04AZ12X Diode, Zener, 04AZ7.5Y
D401	A7116925	Diode, Zener, 04AZ7.37 Diode, Zener, 04AZ9.1Z
D402	A7117715	Diode, Zener, 04AZ20Y
D403	A7117215	Diode, Zener, 04AZ12Y
D406	23118479	Diode, BYD33J
D408	23118052	Diode, RU4Z
D409	A7117015	Diode, Zener, 04AZ10Y
D410	A7116815	Diode, Zener, 04AZ8.2Y
D593	23115599	Diode, 1N4148
D594 D595	23115599 23115599	Diode, 1N4148
D601	23115599	Diode, 1N4148 Diode, 1N4148
D660	23115599	Diode, 1N4148
D696	23115599	Diode, 1N4148
D697	23115599	Diode, 1N4148
D698	23115599	Diode, 1N4148
D699	23115599	Diode, 1N4148
D803	23118124	Diode, LB-156 (LF-B)
D805	23118479	Diode, BYD33J
D806 D807	23118479	Diode, BYD33J
D808	23118479 23118736	Diode, BYD33J
D809	23118451	Diode, BYV96E
D810	23118479	Diode, RU4A Diode, BYD33J
D811	23118479	Diode, BYD33J
D812	A7116515	Diode, Zener, 04AZ6.2Y
DA01	23115599	Diode, 1N4148
DA05	23115599	Diode, 1N4148
DA15	23115599	Diode, 1N4148
DA16	23115599	Diode, 1N4148
DA17	23115599	Diode, 1N4148
DA20	23115599	Diode, 1N4148
DA21 DA22	23115599	Diode, 1N4148
DA22 DA27	23115599 23115599	Diode, 1N4148
DA27 DA28	23115599	Diode, 1N4148 Diode, 1N4148
DA30	23115878	Diode, Zener, μPC574J(L)
DA31	23115599	Diode, 1N4148
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		<u> </u>
Location	Part No.	Description
No.		
DA33	23115599	Diode, 1N4148
DE40	23118212	Diode, MV49124A
DH01	23115599	Diode, 1N4148
DH02	23115599	Diode, 1N4148
DH03	23115599	Diode, 1N4148
DH04	23115599	Diode, 1N4148
DH05	23115599	Diode, 1N4148
DH06	23115599	Diode, 1N4148
DH07	A7116215	Diode, Zener, 04AZ4.7Y
DN02	23115599	Diode, 1N4148
DN04	A7288601	Diode, 1S2186 FA-1
DN05	A7116305	Diode, Zener, 04AZ5.1X
DN06	A7288601	Diode, 1S2186 FA-1
DN07	A7288601	Diode, 1S2186 FA-1
DN11	A7288601	Diode, 1S2186 FA-1
DN12	A7288601	Diode, 1S2186 FA-1
DV01	A7116915	Diode, Zener, 04AZ9.1Y
DV02	23115599	Diode, 1N4148
DV03	A7116215	Diode, Zener, 04AZ4.7Y
MISCELLANE	ous	
∕∧ F801	23144896	Fuse, 2.0A
F801A	23165102	Fuse Holder
K901	23120370	Remote Sensor, IR-9107-K
P601	23367681	Plug, 8P
P661	23365292	Earphone Jack, 3.5mm
⚠ P801	23176697	Power Cord
PH01	23902604	Socket, 21P
S202	23145542	Switch, Lever, 1C3P
S301	23145682	Switch, Lever, 1C3P
<u></u> S801	23344092	Switch, Power, 2C1P
SA01	23344127	Switch, Push, 1C1P
⚠ V901A	23901874	Socket, CRT, 8P
W201	23250907	Coil, Delay Line, TRF2075
W661	23151295	Speaker, SPK1188, 77x77mm, 16 ohm
X401	23153886	Ceramic Resonator, 503kHz, TCR1012
X501	23153979	Crystal, 4.43MHz
X502	23250950	Coil, 1H-Delay Line, DL711
Z101	A5613171	PIF SAW Filter, F1038D
Z102	23153725	Ceramic Resonator, TCR1043
Z103	23107911	Ceramic Video Trap, 5.5 to 6MHz, TCF1019
Z104	23107658	Ceramic Video Trap, 5.74MHz, TCF1052
Z201	23107972	Ceramic Video Trap, 5.5MHz, TPS5.5MB
Z602	A5613023	
Z603	23107948	Ceramic Filter, 6.0MHz, SFE6.0MBF
Z604	23107855	Ceramic Filter, 5.5MHz, TCF1031
ZA01	23153741	Ceramic Resonator, TCR1029
ZA02	24000766	Resistor Block, 10k ohmx4, 1/8W
ZA03	24094651	Capacitor Block, 100pFx4, 50V
ZV01	23107849	Ceramic Video Trap, 4.43MHz, TCF1032
PC BOARD A	SSEMBLII	ES
U101A	23336666	
U101B	23336667	

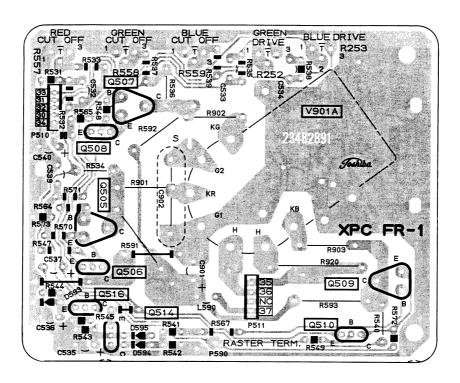
Location No.	Part No.	Description
U101C	23336668	A/V Board, PB0047-3
U101D	23336669	21Pin Board, PB0047-4
		Main Board, PB0048
U902A	23336670	
U903A	23336671	
U903B	23336672	Power Board, PB0049-2
PICTURE TU	JBE	
<u></u> √901	23112349	Picture Tube, A36EAM01X01
TUNER		- NUSAUE EEAAOVA
H001	23121562	Tuner, VHF/UHF, EF442X1
REMOTE H	AND SET PA	
K902	23120387	Remote Hand Unit, CT-9455
AT01	23304431	Upper Case
AT02	23300919	Lower Case
AT03	23300920	Battery Cover
AT04	23300921	Filter
ST01	23304432	Rubber Sheet
	23336217	PC Board, PW9933
UT01		
ZT01	23153736	
		CSB455EB20
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MAIN BOARD PB0048

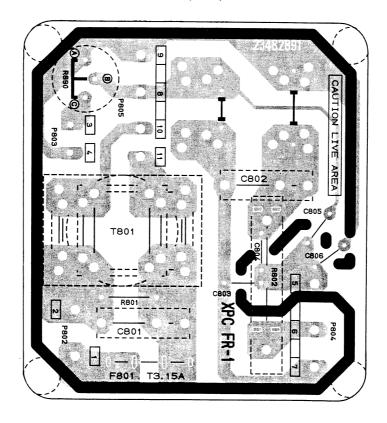


CRT DRIVE BOARD PB0049-1

BOTTOM (FOIL) SIDE

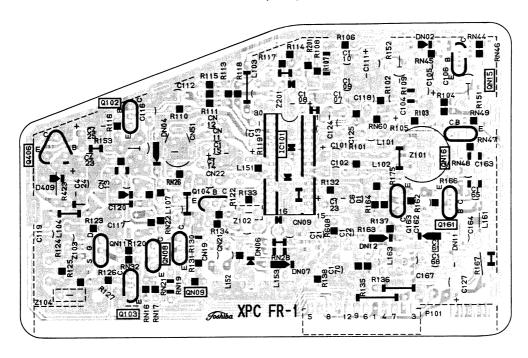


POWER BOARD PB0049-2

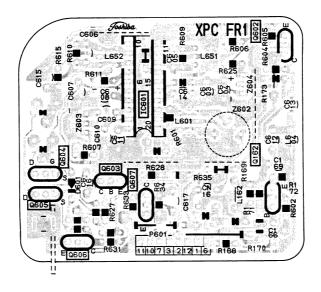


PIF BOARD PB0047-1

BOTTOM (FOIL) SIDE

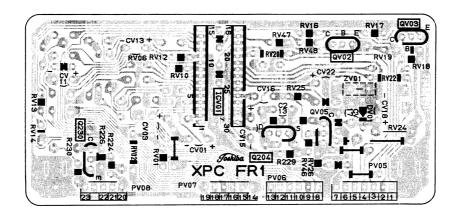


SIF BOARD PB0047-2

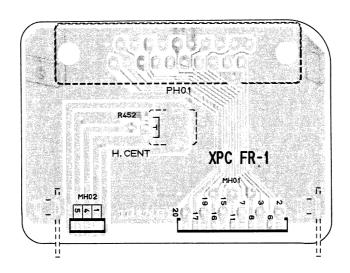


A/V SW BOARD PB0047-3

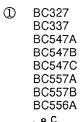
BOTTOM (FOIL) SIDE



21 PIN BOARD PB0047-4



TERMINAL VIEW OF TRANSISTORS





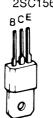




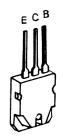
③ BD202



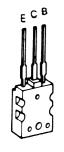
BF8712SD5532SC1569



© 2SC3678 2SC3182N



© 2SD1427 2SD1426

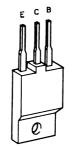


② 2SC2482 2SA1321 2SC2230 2SA1020 2SC2655 2SC752GTM

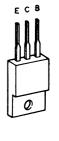


2SC388ATM
 2SA1015
 2SC1959
 2SA562TM

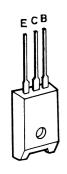




① 2SC2023



① ON4409



1500RFT

SCHEMATIC DIAGRAM (1/2)

IMPORTANT SAFETY NOTICE

Component marked with the International Hazard Symbol must, if changed, be replaced by an approved type and must be mounted as the original. This will ensure that the safety standards adhered to during manufacture will be maintained following any servicing procedure.

OBSERVATION OF VOLTAGES AND WAVEFORMS

- 1. Voltage readings were obtained using a high impedance digital voltmeter.
- 2. (-) or ground lead of instruments should be connected to the ground marked (\pm) in the shematic on checking Non-isolated circuit surrounded by mark but should be connected to the points marked (\pm) on checking isolated circuit.
- 3. The voltage readings may vary as much as ±20%.
- 4. Check that the Tuning, A.F.C., Brightness, Contrast and Colour controls are adjusted for the best picture, making sure that the Contrast, Brightness and Colour controls are set near to their mid-positions.
- 5. The waveforms were taken using a standard colour bar signal and were observed using a wide band oscilloscope via a low capacity probe.

NOTES:

1. This circuit diagram is subject to change without notice.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

- 1. Resistance is shown in ohm, k=1,000, M=1,000,000.
- 2. Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF and the válues more than 1 in pF.
- 3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

GROUNDING SYMBOL

1. L. Non isolated ground, $\frac{1}{12}$: Isolated ground.

Prefixed to val

TYF

RESISTORS

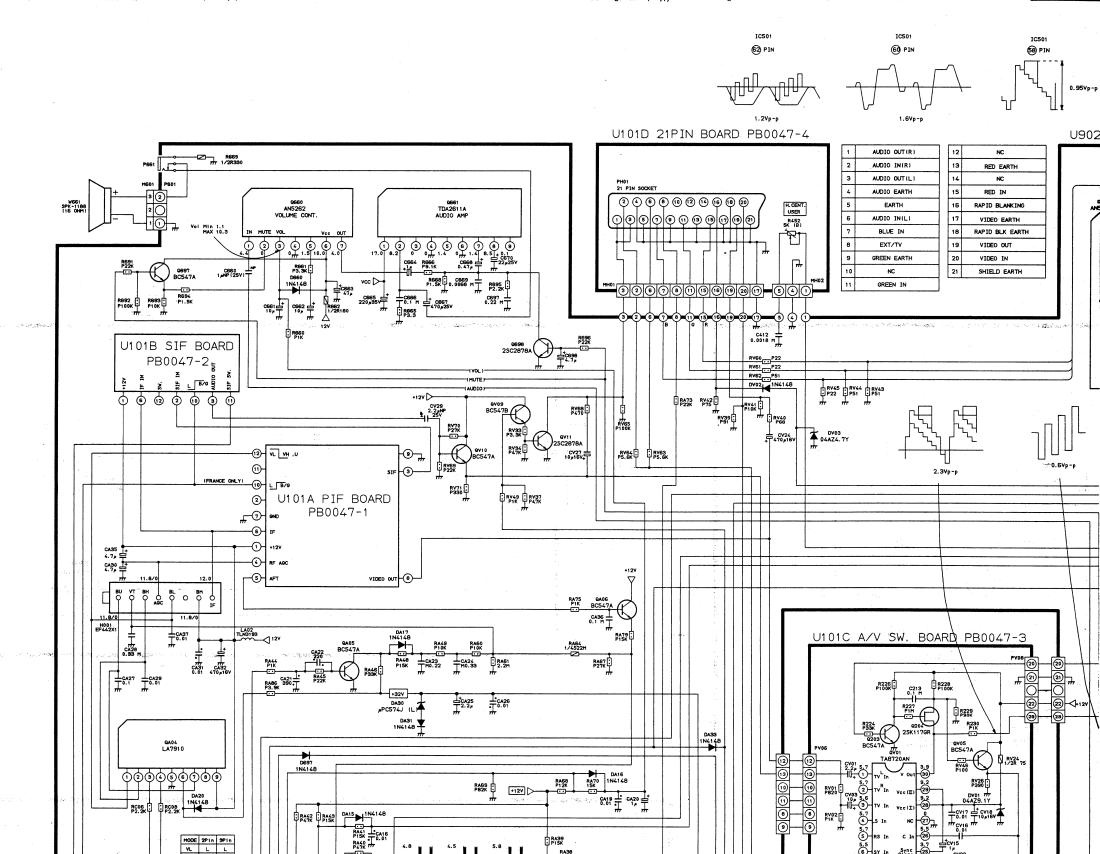
Carbon (

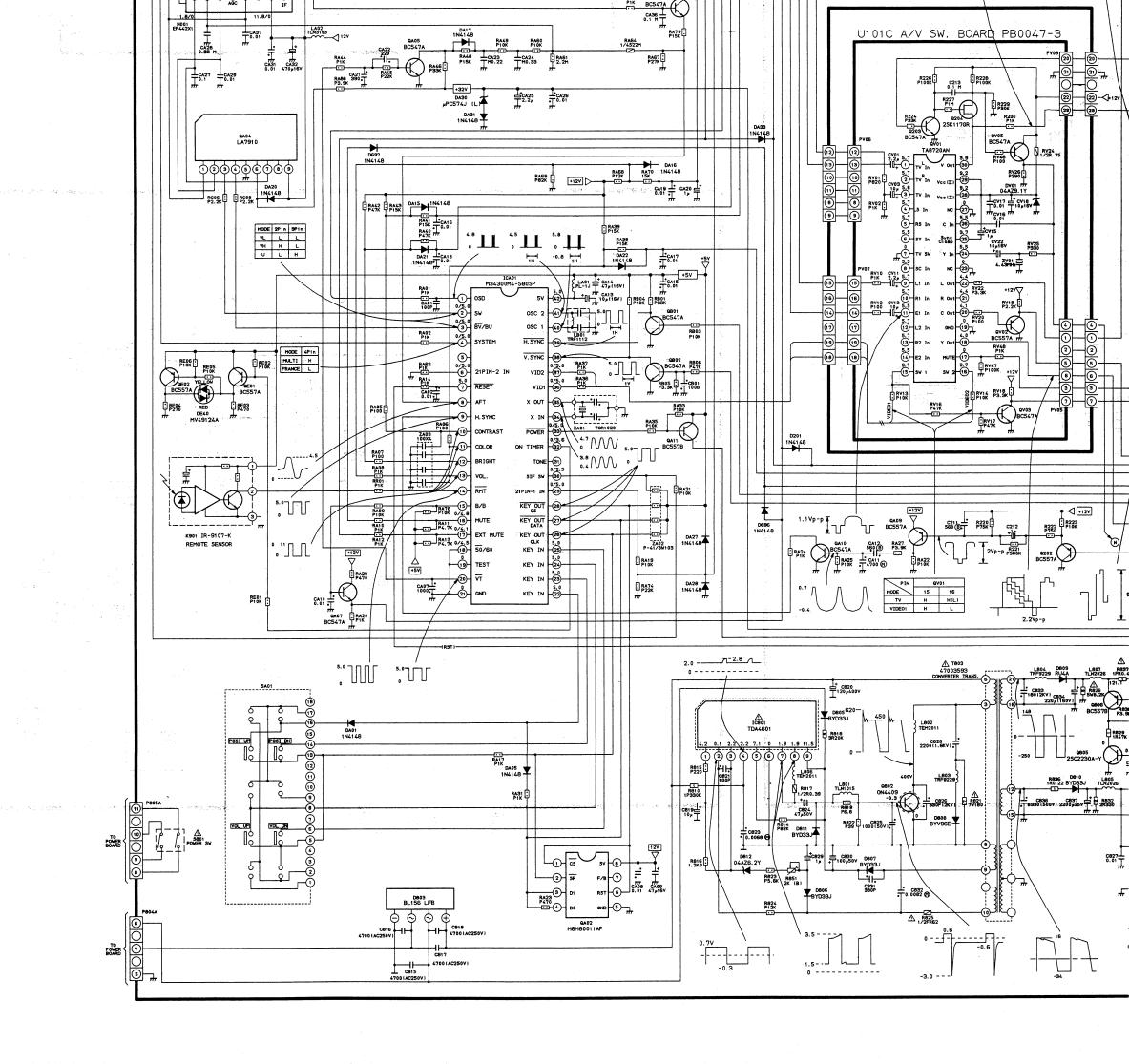
Oxide Me Ins. Carbo

Wire W

Cement cov

Fusible





RESISTORS

are expressed in

are expressed in

Prefixed to values:

Prefixed to values:	
TYPE	MARK
Carbon Comp.	S
Oxide Metal Film	R
Ins. Carbon Film	Р
Wire Wound	W
Cement covered W.W.	NO MARK
Fusible Res.	FR
	TYPE Carbon Comp. Oxide Metal Film Ins. Carbon Film Wire Wound Cement covered W.W.

Suffixes to values:

TOLERANCE	MARK
±1%	(F)
±2%	(G)

Suffixes to VR values:

LAW	MARK
Linear	(B)
'C' Curve Characteristic	(C)

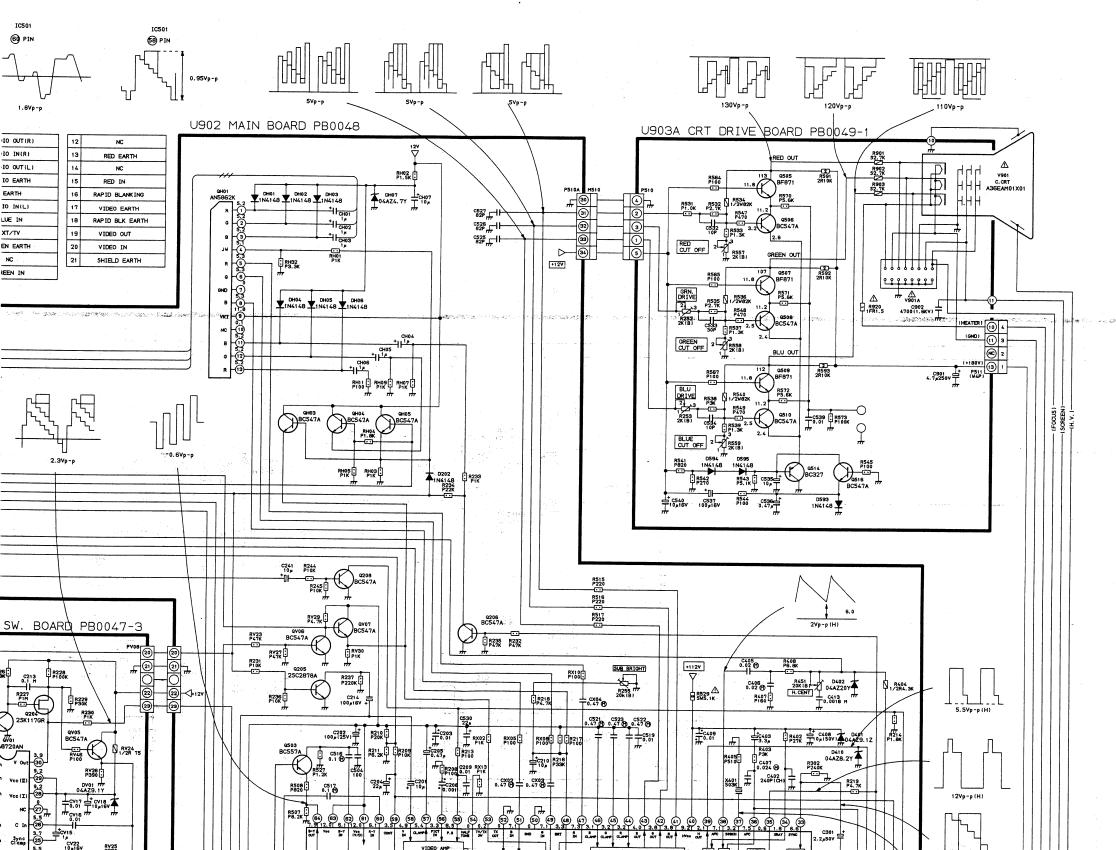
Rating Markings:

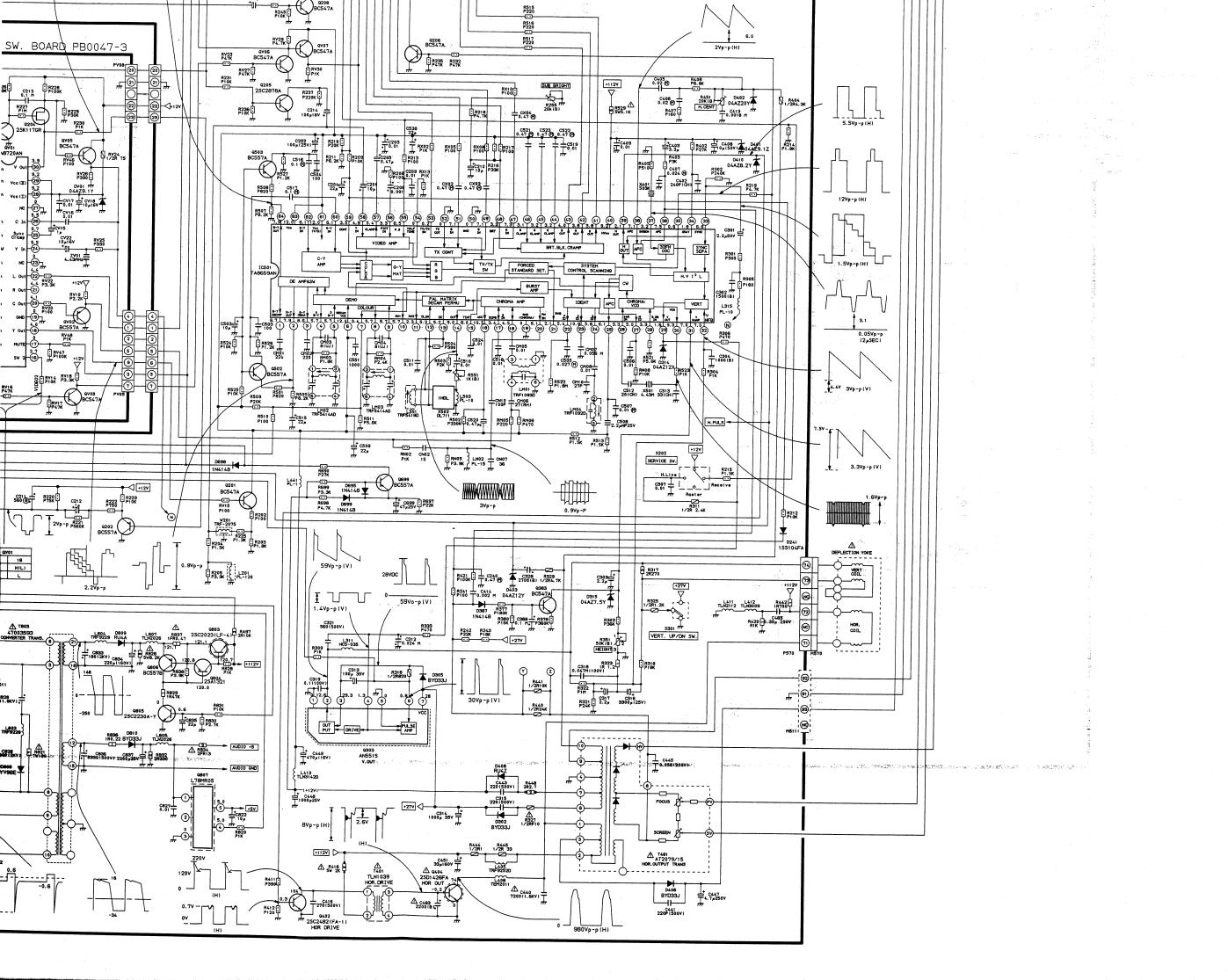
NATTAGE	MARK	WATTAGE	MARK
1/6W		3W	- 3 -
. 1/4W		5W	5
15.7 F 1 / 7 W V 1	- ⊠-	10W	
1/2W	-	 15W	15
1 W	<u>-</u>	20W	
2W	- 2 -	25W	

CAPACITORS

Rating Markings:

		 7.5	100	318	1.4
Type	Mark				1.00
Ceramic Disc 50V Only	4F				
Electrolytic	[‡] 11 ⊩ ‡1 ⊩				
Electrolytic Non-Polar	-0 D- -111-				
Variable Capacitor	** # *				
Other	-1 -				- .





1500RFT

SCHEMATIC DIAGRAM (2/2)

IMPORTANT SAFETY NOTICE

Component marked with the International Hazard Symbol must, if changed, be replaced by an approved type and must be mounted as the original. This will ensure that the safety standards adhered to during manufacture will be maintained following any servicing procedure.

OBSERVATION OF VOLTAGES AND WAVEFORMS

- 1. Voltage readings were obtained using a high impedance digital voltmeter.
- (—) or ground lead of instruments should be connected to the ground marked (⊥) in the shematic on checking Non-isolated circuit surrounded by mark but should be connected to the points marked (→) on checking isolated circuit.
- 3. The voltage readings may vary as much as ±20%.
- 4. Check that the Tuning, A.F.C., Brightness, Contrast and Colour controls are adjusted for the best picture, making sure that the Contrast, Brightness and Colour controls are set near to their mid-positions.
- 5. The waveforms were taken using a standard colour bar signal and were observed using a wide band oscilloscope via a low capacity probe.

NOTES:

1. This circuit diagram is subject to change without notice.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

- 1. Resistance is shown in ohm, k=1,000, M=1,000,000.
- 2. Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in $\mu \, F$ and the values more than 1 in p.F.

RESISTO

Prefixed to

Carb

Oxide

Ins. C

Cement

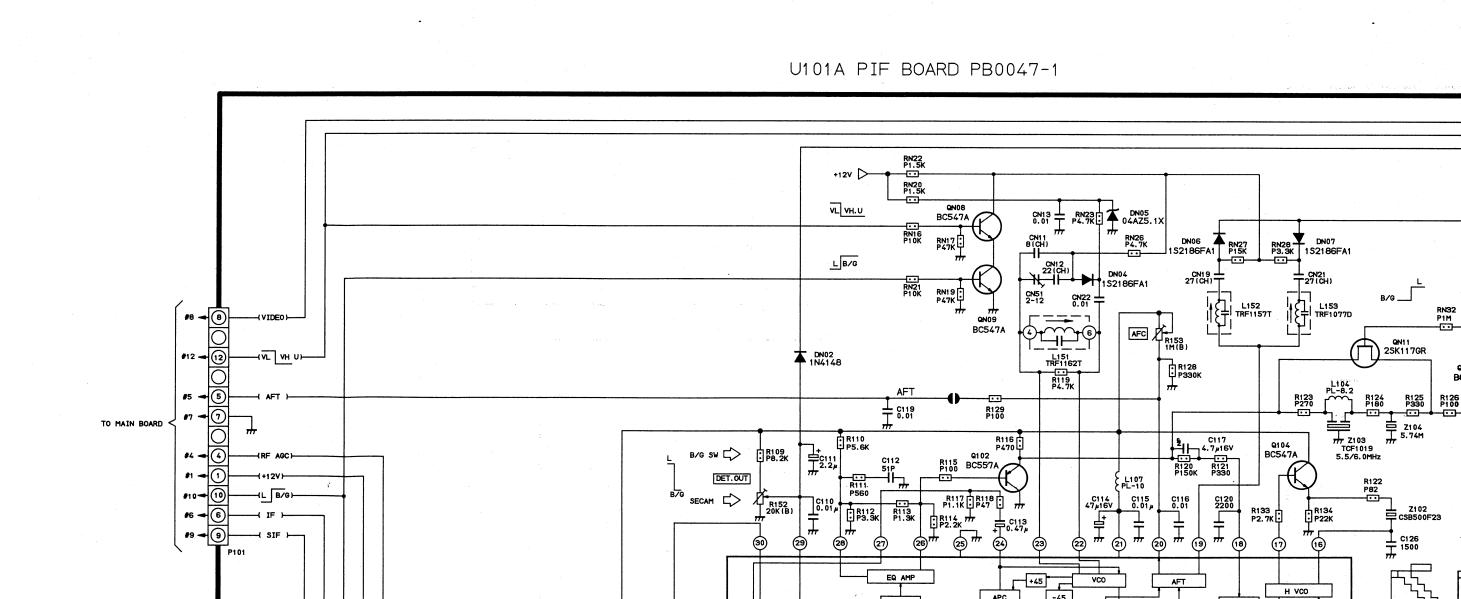
Wir

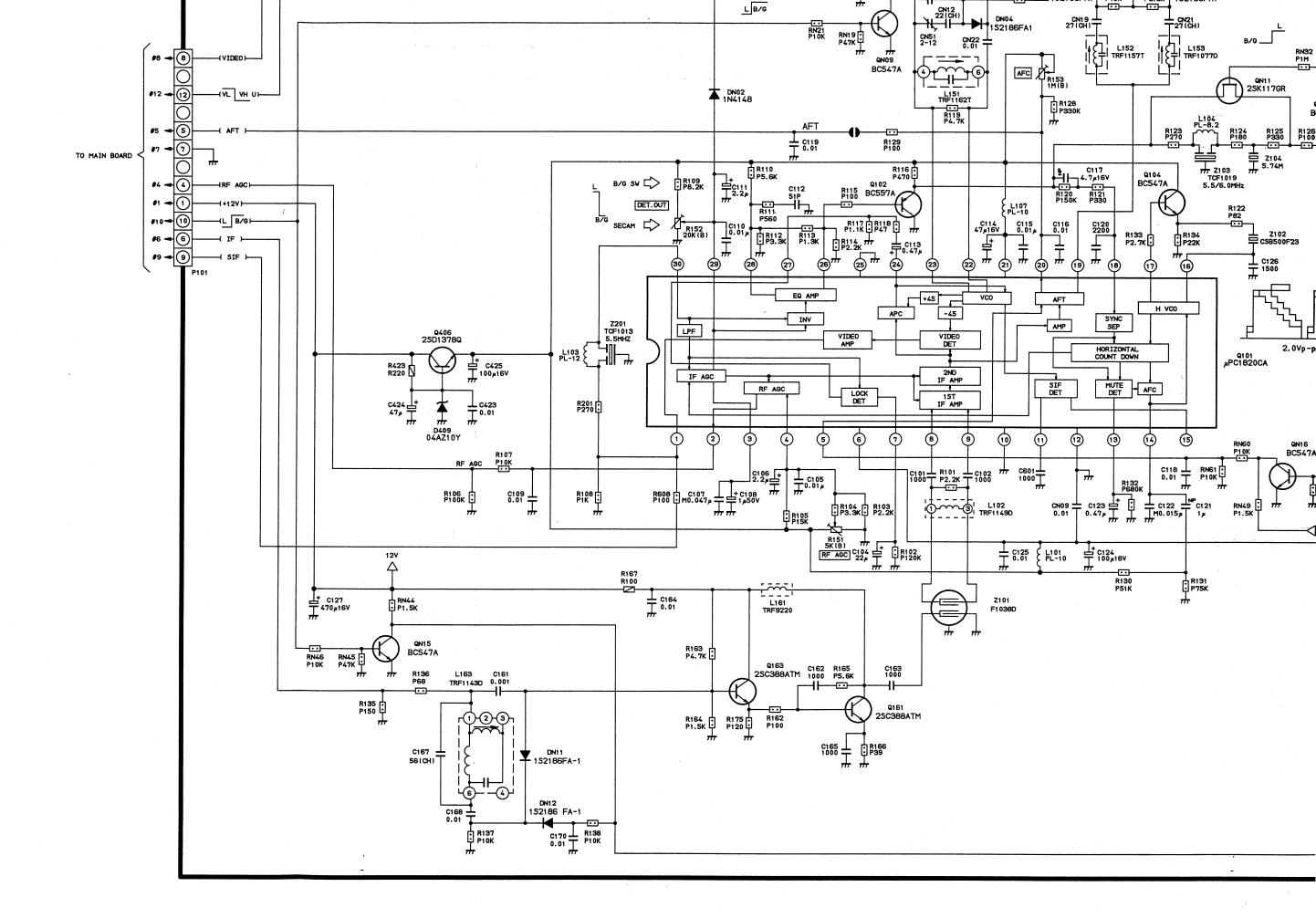
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in $\mu\,H$, and the values less than 1 in H.

GROUNDING SYMBOL

1. ↓: Non isolated ground,

: Isolated ground.





RESISTORS

l are expressed in are expressed in

Prefixed to values:

Frenked to values.	
TYPE	MARK
Carbon Comp.	S
Oxide Metal Film	R
Ins. Carbon Film	Р
Wire Wound	W
Cement covered W.W.	NO MARK
Fusible Res.	_ FR

Suffixes to values:

arrixed to result.				
MARK				
(F)				
(G)				

Suffixes to VR values:			
LAW	MARK		
Linear	(B)		
'C' Curve Characteristic	(C)		

Rating Markings:

WATTAGE

1/6W

1/4W

1/2W 1 W

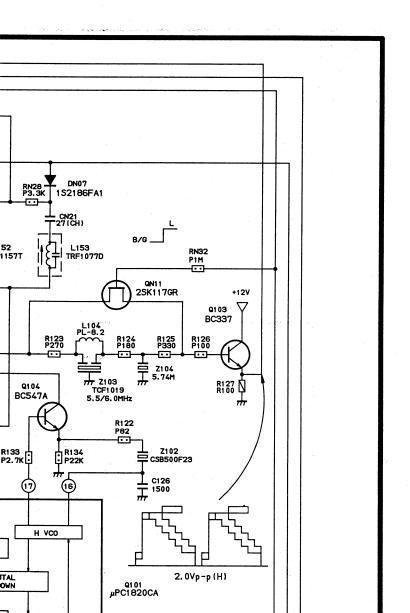
2W

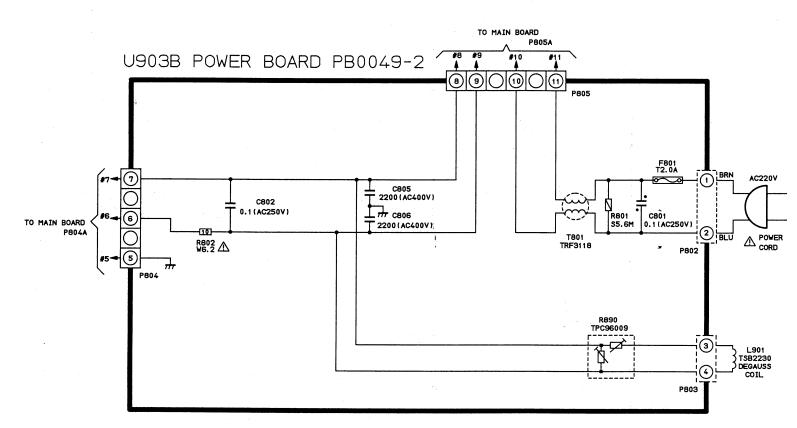
MARK		WATTAGE	MARK
	-	3 W	3
		5W	
		10W	
		15W	<u>— 15</u> —
		20W	
		25 W	

CAPACITORS

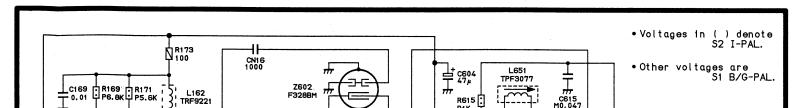
Rating Markings:

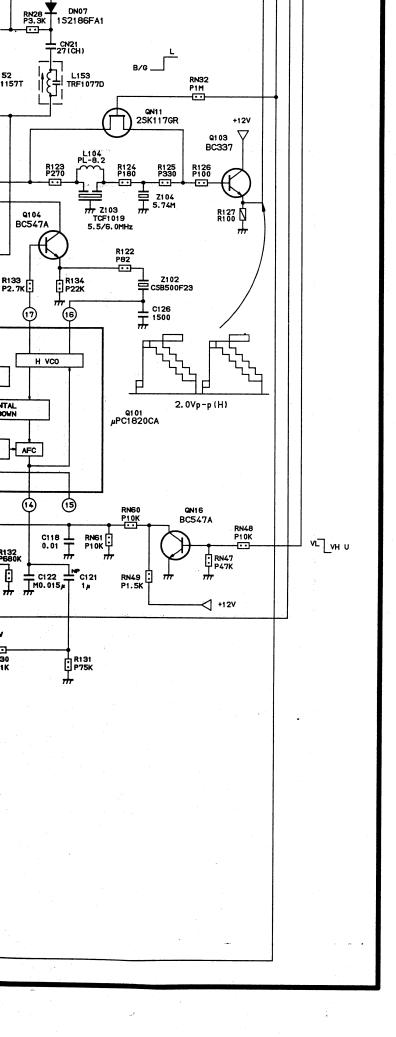
Туре	Mark:
Ceramic Disc 50V Only	٦ŀ
Electrolytic	┶┦┡╴ ┷┩┡
Electrolytic Non-Polar	-0 D -111-
Variable Capacitor	#
Other	⊣ ⊦.

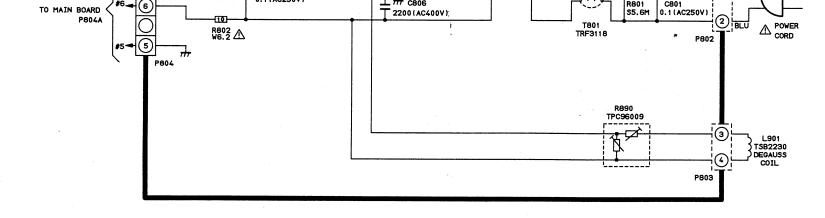




U101B SIF BOARD PB0047-2







U101B SIF BOARD PB0047-2

